

Anti-L1CAM antibody [EPR18750] - BSA and Azide free ab271982

KO 評価済 リコンビナント RabMAb

★★★★★ 1 Abreviews 画像数 16

製品の概要

製品名	Anti-L1CAM antibody [EPR18750] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR18750] to L1CAM - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: IP, IHC-P, WB
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human fetal brain and cerebellum lysates; HeLa and A-375 whole cell lysates; Rat brain, cerebellum and hippocampus lysates. Mouse cerebellum and brain lysates. IHC-P: Human kidney, Human stomach cancer, Mouse cerebrum, Mouse colon, Rat cerebellum and Rat colon tissues. IP: Human cerebellum and Rat brain lysates.
特記事項	<p>ab271982 is the carrier-free version of ab208155.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18750
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab271982の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 140 kDa.

ターゲット情報

機能	Cell adhesion molecule with an important role in the development of the nervous system. Involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. Binds to axonin on neurons.
関連疾患	<p>Defects in L1CAM are the cause of hydrocephalus due to stenosis of the aqueduct of Sylvius (HSAS) [MIM:307000]. Hydrocephalus is a condition in which abnormal accumulation of cerebrospinal fluid in the brain causes increased intracranial pressure inside the skull. This is usually due to blockage of cerebrospinal fluid outflow in the brain ventricles or in the subarachnoid space at the base of the brain. In children is typically characterized by enlargement of the head, prominence of the forehead, brain atrophy, mental deterioration, and convulsions. In adults the syndrome includes incontinence, imbalance, and dementia. HSAS is characterized by mental retardation and enlarged brain ventricles.</p> <p>Defects in L1CAM are the cause of mental retardation-aphasia-shuffling gait-adducted thumbs syndrome (MASA) [MIM:303350]; also known as corpus callosum hypoplasia, psychomotor retardation, adducted thumbs, spastic paraparesis, and hydrocephalus or CRASH syndrome.</p>

MASA is an X-linked recessive syndrome with a highly variable clinical spectrum. Main clinical features include spasticity and hyperreflexia of lower limbs, shuffling gait, mental retardation, aphasia and adducted thumbs. The features of spasticity have been referred to as complicated spastic paraplegia type 1 (SPG1). Some patients manifest corpus callosum hypoplasia and hydrocephalus. Inter- and intrafamilial variability is very wide, such that patients with hydrocephalus, MASA, SPG1, and agenesis of corpus callosum can be present within the same family.

Defects in L1CAM are the cause of spastic paraplegia X-linked type 1 (SPG1) [MIM:303350].

Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.

Note=Defects in L1CAM may contribute to Hirschsprung disease by modifying the effects of Hirschsprung disease-associated genes to cause intestinal aganglionosis.

Defects in L1CAM are a cause of partial agenesis of the corpus callosum (ACCPX)

[MIM:304100]. A syndrome characterized by partial corpus callosum agenesis, hypoplasia of inferior vermis and cerebellum, mental retardation, seizures and spasticity. Other features include microcephaly, unusual facies, and Hirschsprung disease in some patients.

配列類似性

Belongs to the immunoglobulin superfamily. L1/neurofascin/NgCAM family.

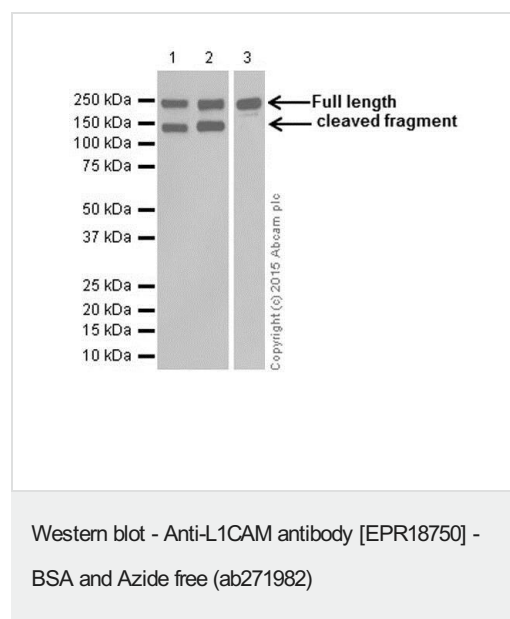
Contains 5 fibronectin type-III domains.

Contains 6 Ig-like C2-type (immunoglobulin-like) domains.

細胞内局在

Cell membrane.

画像



All lanes : Anti-L1CAM antibody [EPR18750] ([ab208155](#)) at 1/2000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : Human cerebellum lysate

Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 140 kDa

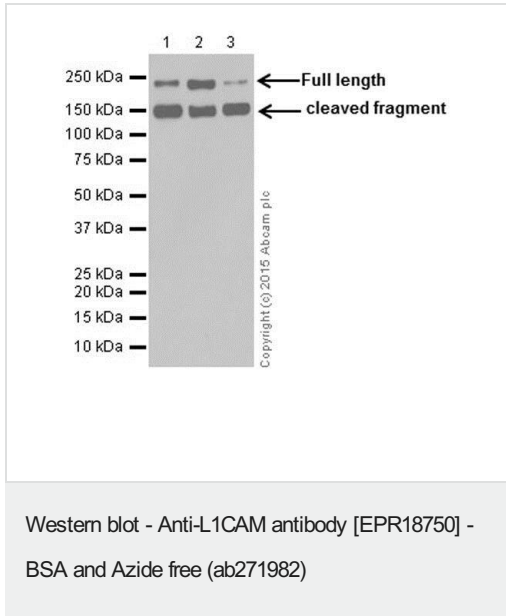
Observed band size: 140,200-220 kDa

This data was developed using [ab208155](#), the same antibody clone in a different buffer formulation:

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1 and 2: 30seconds; Lane 3: 3 minutes.

The product binds to the full length L1CAM and the 140KD fragment. Plasmin cleaves L1CAM at the FN3 repeat to produce 140 kDa and 85 kDa fragments (PMID: 7542658;PMID: 20840789). The 140 kDa fragment is where the immunogen is located.



All lanes : Anti-L1CAM antibody [EPR18750] ([ab208155](#)) at 1/2000 dilution

Lane 1 : Rat brain lysate

Lane 2 : Rat cerebellum lysate

Lane 3 : Rat hippocampus lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lane 1 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

Lanes 2-3 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 140 kDa

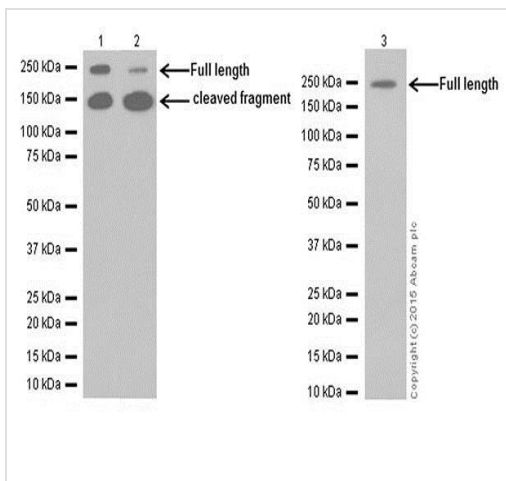
Observed band size: 140,200-220 kDa

Exposure time: 3 minutes

This data was developed using [ab208155](#), the same antibody clone in a different buffer formulation:

Blocking/Dilution buffer: 5% NFDM/TBST.

The product binds to the full length L1CAM and the 140KD fragment. Plasmin cleaves L1CAM at the FN3 repeat to produce 140 kDa and 85 kDa fragments (PMID: 7542658; PMID: 20840789). The 140 kDa fragment is where the immunogen is located.



Western blot - Anti-L1CAM antibody [EPR18750] - BSA and Azide free (ab271982)

All lanes : Anti-L1CAM antibody [EPR18750] ([ab208155](#)) at 1/1000 dilution

Lane 1 : Mouse cerebellum lysate

Lane 2 : Mouse brain lysate

Lane 3 : A-375 (Human malignant melanoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 140 kDa

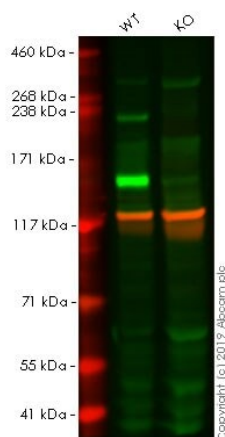
Observed band size: 140,200-220 kDa

Exposure time: 3 minutes

This data was developed using [ab208155](#), the same antibody clone in a different buffer formulation:

Blocking/Dilution buffer: 5% NFDM/TBST.

The product binds to the full length L1CAM and the 140KD fragment. Plasmin cleaves L1CAM at the FN3 repeat to produce 140 kDa and 85 kDa fragments (PMID: 7542658;PMID: 20840789). The 140 kDa fragment is where the immunogen is located.



Western blot - Anti-L1CAM antibody [EPR18750] - BSA and Azide free (ab271982)

Lane 1 : Anti-L1CAM antibody [EPR18750] ([ab208155](#)) at 1/1000 dilution

Lane 2 : Anti-L1CAM antibody [EPR18750] ([ab208155](#))

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : L1CAM knockout HeLa cell lysate

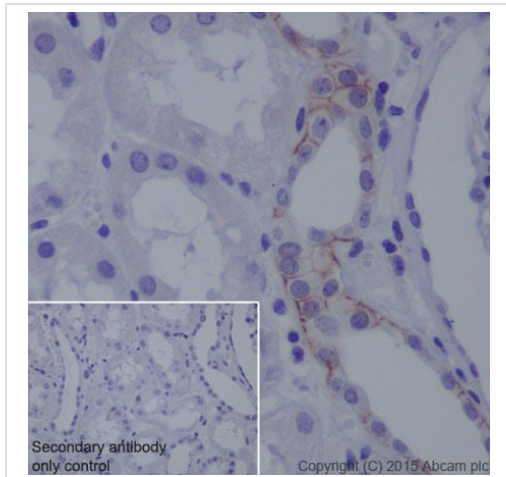
Lysates/proteins at 20 µg per lane.

Predicted band size: 140 kDa

This data was developed using [ab208155](#), the same antibody clone in a different buffer formulation:

Lanes 1 -2: Merged signal (red and green). Green - [ab208155](#) observed at 220 kDa. Red - loading control, [ab130007](#) observed at 125 kDa.

[ab208155](#) was shown to react with L1CAM in wild-type HeLa. Loss of signal was observed when knockout cell line [ab255401](#) (knockout cell lysate [ab263786](#)) was used. Wild-type and L1CAM knockout samples were subjected to SDS-PAGE. [ab208155](#) and Anti-Vinculin antibody [VIN-54] ([ab130007](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling L1CAM with [ab208155](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

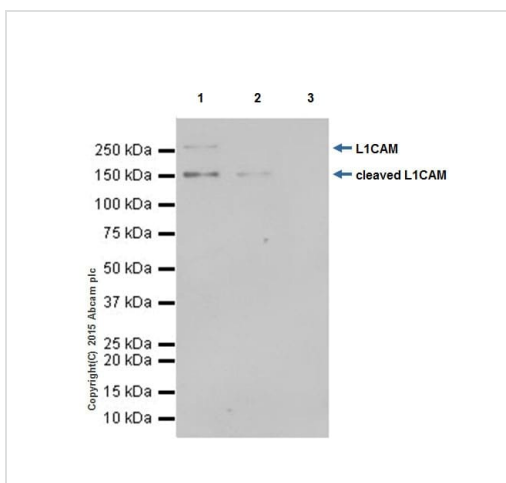
Membrane staining on a part of Human kidney tubules is observed. L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab208155](#)).



Immunoprecipitation - Anti-L1CAM antibody [EPR18750] (ab271982)

L1CAM was immunoprecipitated from 1mg of Rat brain whole cell lysate with [ab208155](#) at 1/40 dilution. Western blot was performed from the immunoprecipitate using [ab208155](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: Rat brain whole cell lysate 10µg (Input).

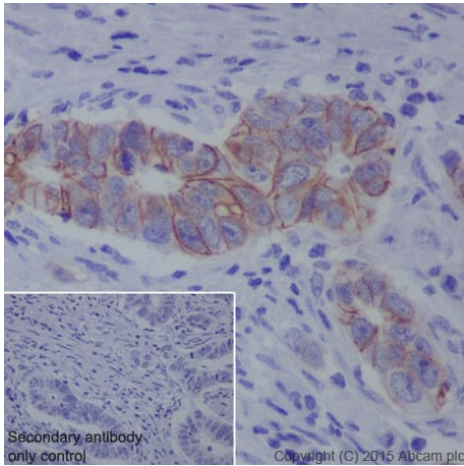
Lane 2: [ab208155](#) IP in Rat brain whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab208155](#) in Rat brain whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab208155](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Human stomach cancer tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Membrane staining on the tumor cells of Human stomach cancer is observed.

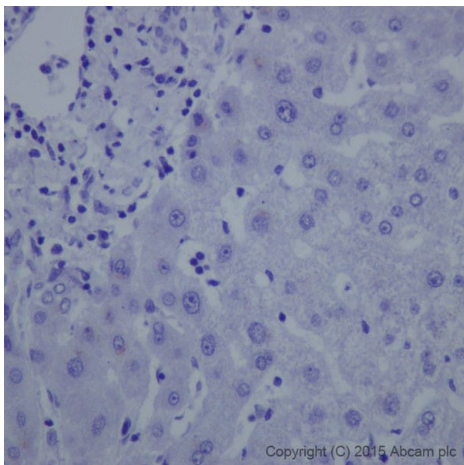
L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

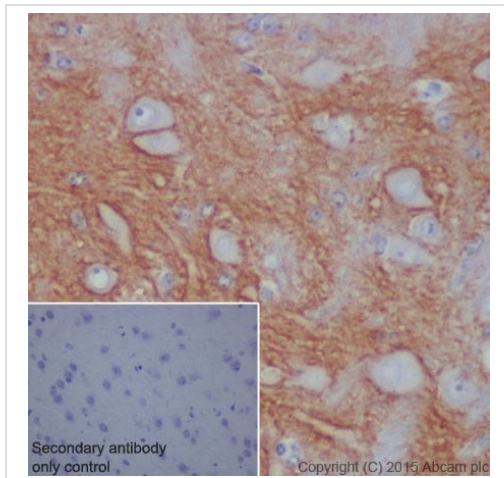
Negative staining on the Human liver.

L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

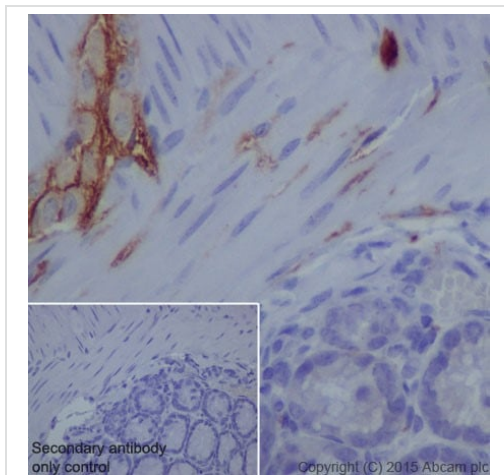
Cytoplasm staining on the mouse cerebrum is observed. L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Mainly membrane staining on the nerve tract of mouse colon is observed.

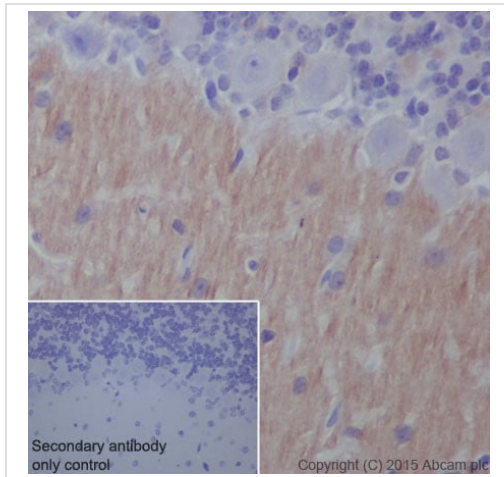
L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Rat cerebellum tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasm staining on the molecular layer of the rat cerebellar cortex is observed.

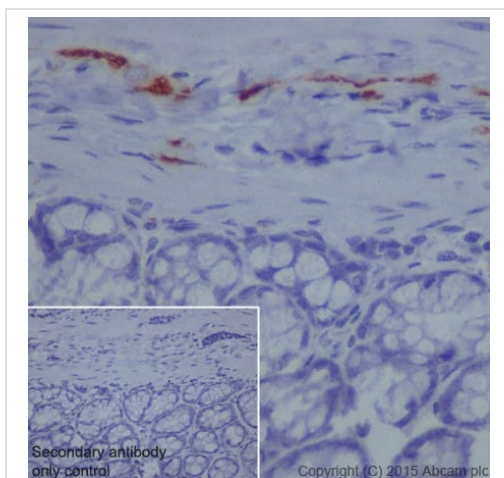
L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Cytoplasm staining on the nerve tract of the rat colon is observed.

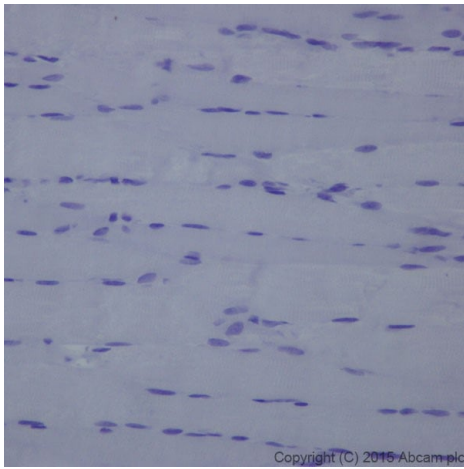
L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Negative staining on the rat skeletal muscle.

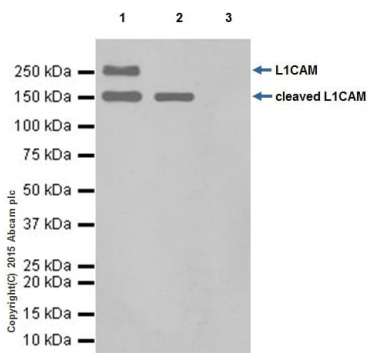
L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunoprecipitation - Anti-L1CAM antibody [EPR18750] (ab271982)

L1CAM was immunoprecipitated from 1mg of Human cerebellum lysate with **ab208155** at 1/40 dilution. Western blot was performed from the immunoprecipitate using **ab208155** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Human cerebellum lysate 10µg (Input).

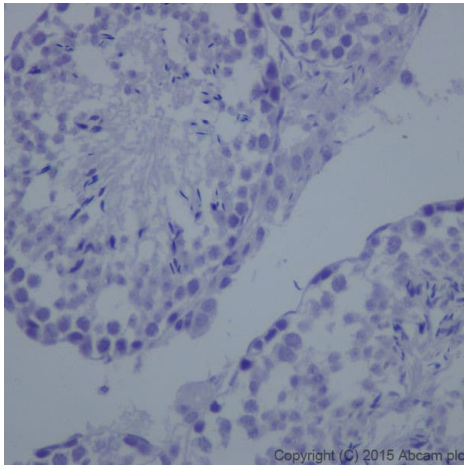
Lane 2: **ab208155** IP in Human cerebellum lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab208155** in Human cerebellum lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1CAM antibody [EPR18750] (ab271982)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling L1CAM with **ab208155** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Negative staining on the mouse testis.

L1CAM specific staining most abundant on nervous system, distal kidney tubules, and tumor cells. [PMID: 16867862, PMID: 20044598].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab208155**).

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Anti-L1CAM antibody [EPR18750] - BSA and Azide free (ab271982)

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