abcam

Product datasheet

Anti-GAD65 + GAD67 antibody [EPR19366] ab183999

リコンビナント RabMAb

4 Abreviews 8 References 画像数 13

製品の概要

製品名	Anti-GAD65 + GAD67 antibody [EPR19366]
製品の詳細	Rabbit monoclonal [EPR19366] to GAD65 + GAD67
由来種	Rabbit
アプリケーション	**適用あり:** IP, IHC-P, IHC-Fr, WB, ICC/IF
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Common marmoset
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: Mouse GAD67 and GAD65 fragment recombinant proteins; Human, mouse and rat cerebellum lysates; C6 whole cell lysate; Mouse and rat brain lysates. IHC-P: Mouse cerebellum and pancreas tissues; Rat cerebellum and pancreas tissues. IHC-Fr: Mouse hippocampus tissue. ICC/IF: Mouse primary neuron cells
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR19366
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ab183999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		1/40.
IHC-P	★★★★★ (3)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr	★★★★★ (1)	1/2500.
WB		1/1000. Detects a band of approximately 65, 67 kDa (predicted molecular weight: 65, 67 kDa).
ICC/IF		1/100.

ターゲット情報

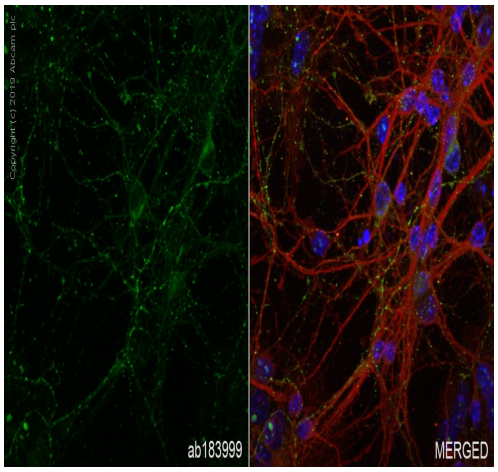
関連性

This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma aminobutyric acid from L glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantibody and an autoreactive T cell target in insulin dependent diabetes. This gene may also play a role in the stiff man syndrome.

細胞内局在

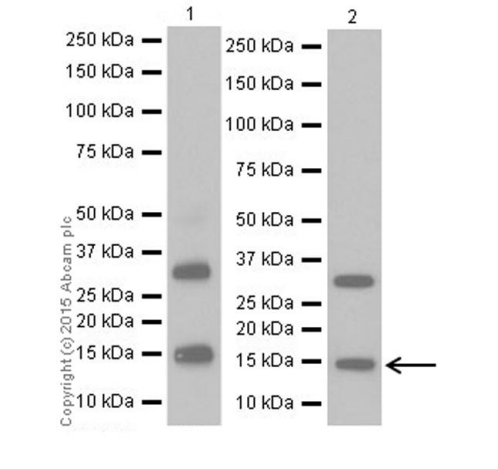
Cytoplasm; cytosol. Associated to cytoplasmic vesicles. In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters.

画像



Immunocytochemistry/ Immunofluorescence - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunocytochemistry/ Immunofluorescence analysis of mouse primary neuron cells labeling GAD65 + GAD67 with purified ab183999 at 1/100 (10 µg/mL). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab11267** Anti-MAP2 antibody [HM-2]; **ab150120** Goat Anti-Mouse IgG H&L (Alexa Fluor® 594). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.



Western blot - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

All lanes : Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999) at 1/1000 dilution

Lane 1 : Mouse GAD67 fragment recombinant protein
Lane 2 : Mouse GAD65 fragment recombinant protein

Lysates/proteins at 0.01 µg per lane.

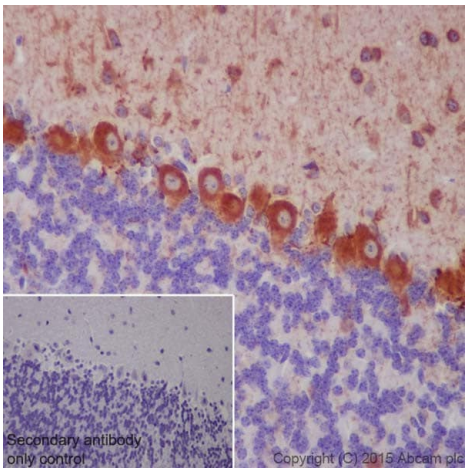
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 65, 67 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 1 second; Lane 2: 15 seconds.

Mouse GAD67 fragment recombinant protein contain aa468-592 with a His-Tag®. Mouse GAD65 fragment recombinant protein contain aa460-584 with a His-Tag®. These two fragment recombinant proteins were made in-house. The ~30 kDa band represents doublets of the recombinant fragments.

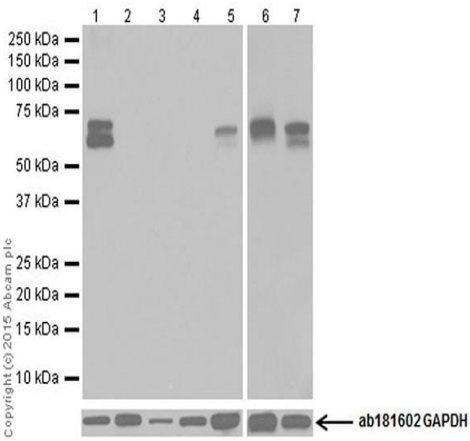


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded Mouse cerebellum tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on mouse cerebellum is observed. 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.



Western blot - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

All lanes : Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999) at 1/1000 dilution

Lane 1 : Human cerebellum lysate
Lane 2 : Mouse skin lysate
Lane 3 : Mouse lung lysate
Lane 4 : Neuro-2a (Mouse neuroblastoma cell line) whole cell lysate
Lane 5 : C6 (Rat glial tumor cell line) whole cell lysate
Lane 6 : Mouse cerebellum lysate
Lane 7 : Rat cerebellum lysate

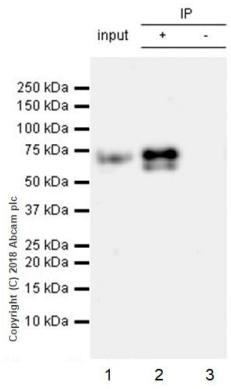
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 65, 67 kDa
Observed band size: 65,67 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

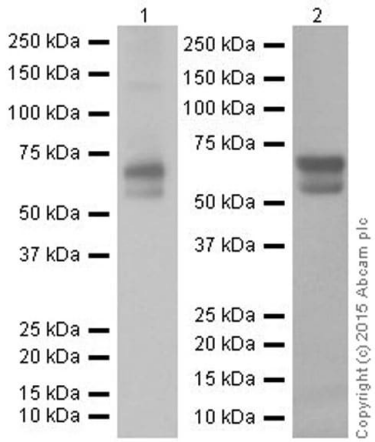
Exposure time: Lane 1-5: 3 minutes; Lane 6 and 7: 2 seconds.



Immunoprecipitation - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Ab183999 Immunoprecipitating GAD65 + GAD67 in Human cerebellum lysate. 10µg of cell lysate was incubated with primary antibody 1/40. For western blotting Ab183999 (1/1000) was used to confirm successful immunoprecipation. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000.

Lane 1 (Input): Human cerebellum lysate 10µg
Lane 2 (+): Human cerebellum lysate with Ab183999, 1/40
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab183999 in Human cerebellum lysate



Western blot - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Lane 1 : Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999) at 1/5000 dilution
Lane 2 : Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999) at 1/1000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Rat brain lysate

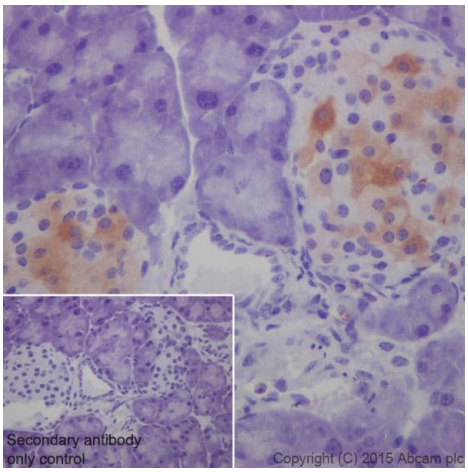
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 65, 67 kDa
Observed band size: 65,67 kDa

Exposure time: 2 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

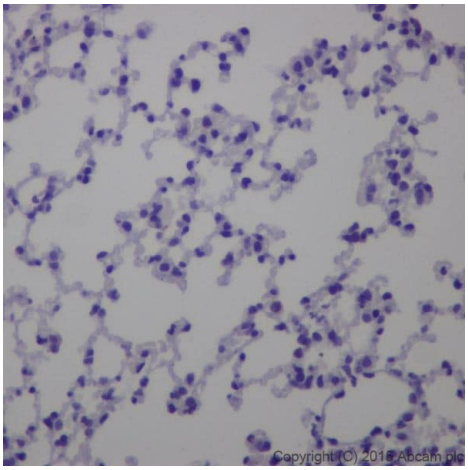


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded Mouse pancreas tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on mouse pancreas islets is observed. 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.

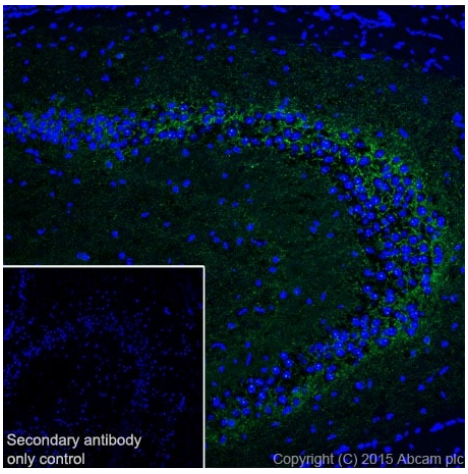


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Negative on mouse lung. Counter stained with Hematoxylin.

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

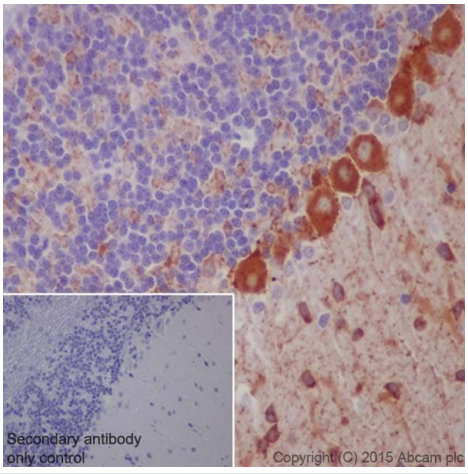
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Frozen sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of 4% paraformaldehyde fixed, 0.2% Triton X-100 permealized frozen section of Mouse hippocampus tissue labeling GAD65 + GAD67 with ab183999 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) secondary (**ab150077**) at 1/1000 dilution (green). The result showed mainly cytoplasmic staining on mouse hippocampus. The nuclear counterstain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** at 1/1000 dilution.

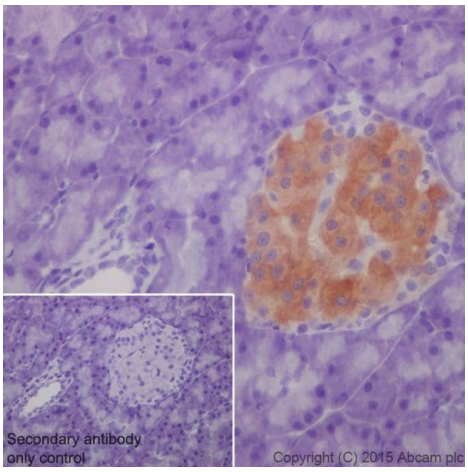


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded Rat cerebellum tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on rat cerebellum is observed. 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.

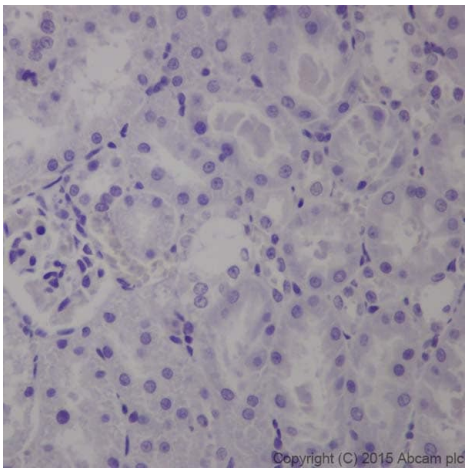


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded Rat pancreas tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasm staining on rat pancreas islet is observed. 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.

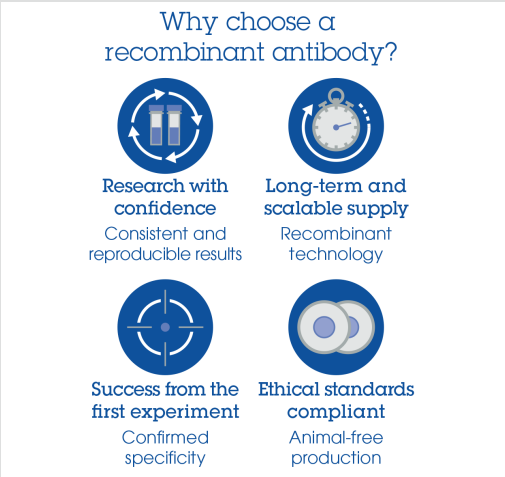


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody [EPR19366] (ab183999)

Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling GAD65 + GAD67 with ab183999 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Negative on rat kidney. 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.



Anti-GAD65 + GAD67 antibody [EPR19366]

(ab183999)

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