abcam

Product datasheet

Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free ab270755

リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR23228-40] to EGR2 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P **適用なし:** ChIP,ICC/IF,IHC-Fr or IP
種交差性	**交差種:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse P0 cerebellum and Mouse thymus tissue lysates; Rat thymus and Rat brain lysates. IHC-P: Mouse cerebrum tissue; Rat cerebrum and Rat skin tissue. Flow Cyt (intra): Mouse splenocytes treated with 5ug/ml anti-mouse CD3 and 2ug/ml anti-mouse CD28 for 16h.
特記事項	ab270755 is the carrier-free version of **ab254228**. 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. 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. 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. 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. 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. Do Not Freeze.
バッファー	pH: 7.20 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	EPR23228-40
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ab270755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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 53 kDa (predicted molecular weight: 50 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

追加情報 Is unsuitable for ChIP,ICC/IF,IHC-Fr or IP.

ターゲット情報

機能 Sequence-specific DNA-binding transcription factor. Binds to two specific DNA sites located in the promoter region of HOXA4.

関連疾患 Defects in EGR2 are a cause of congenital hypomyelination neuropathy (CHN) [MIM:605253]. Inheritance can be autosomal dominant or recessive. Recessive CHN is also known as Charcot-Marie-Tooth disease type 4E (CMT4E). CHN is characterized clinically by early onset of hypotonia, areflexia, distal muscle weakness, and very slow nerve conduction velocities. Defects in EGR2 are a cause of Charcot-Marie-Tooth disease type 1D (CMT1D) [MIM:607678]. CMT1D is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT1 group are characterized by severely reduced nerve conduction velocities (less than 38

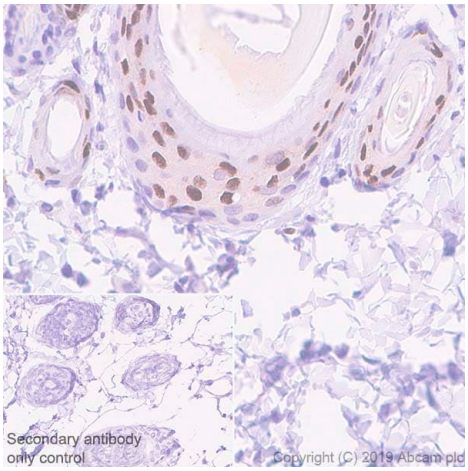
m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet.
Defects in EGR2 are a cause of Dejerine-Sottas syndrome (DSS) [MIM:145900]; also known as Dejerine-Sottas neuropathy (DSN) or hereditary motor and sensory neuropathy III (HMSN3). DSS is a severe degenerating neuropathy of the demyelinating Charcot-Marie-Tooth disease category, with onset by age 2 years. DSS is characterized by motor and sensory neuropathy with very slow nerve conduction velocities, increased cerebrospinal fluid protein concentrations, hypertrophic nerve changes, delayed age of walking as well as areflexia. There are both autosomal dominant and autosomal recessive forms of Dejerine-Sottas syndrome.

配列類似性 Belongs to the EGR C2H2-type zinc-finger protein family.
Contains 3 C2H2-type zinc fingers.

翻訳後修飾 Ubiquitinated by WWP2 leading to proteasomal degradation.

細胞内局在 Nucleus.

画像



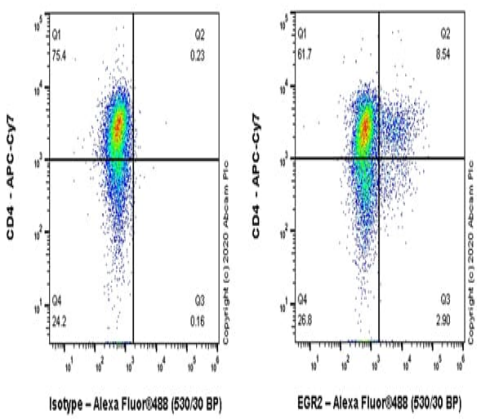
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free (ab270755)

Immunohistochemical analysis of paraffin-embedded Rat skin tissue labeling EGR2 with **ab245228** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). IHC results showed nuclear staining on the rat skin (PMID: 21514423, 21514423).The section was incubated with **ab245228** for 30 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245228**).

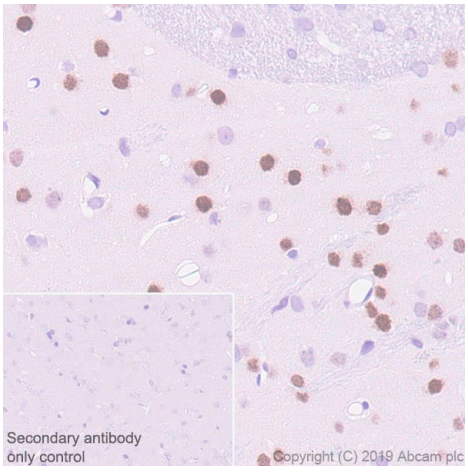


Flow Cytometry (Intracellular) - Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free (ab270755)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed, True-Nuclear buffer-permeabilized Mouse splenocyte (treated with 5ug/ml anti-mouse CD3 and 2ug/ml anti-mouse CD28 for 16h) cells labelling EGR2 with **ab245228** at 1/500 dilution (Right) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Left). Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were surface stained with anti-CD4 conjugated to APC-Cy7 . Then fixed with 2% PFA for 10min followed by intracellularly stained with rabbit IgG (Left) or **ab245228** (Right).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245228**).



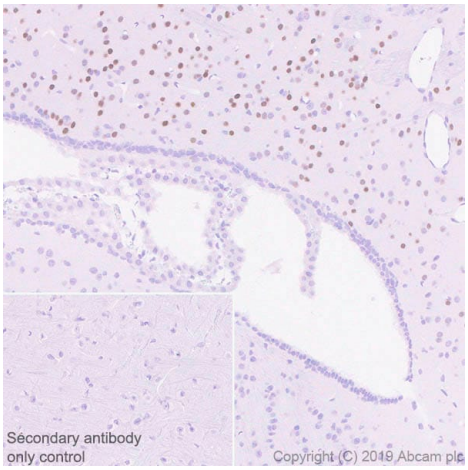
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free (ab270755)

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling EGR2 with **ab245228** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). IHC results showed nuclear staining on the rat cerebrum.The section was incubated with **ab245228** for 30 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245228**).



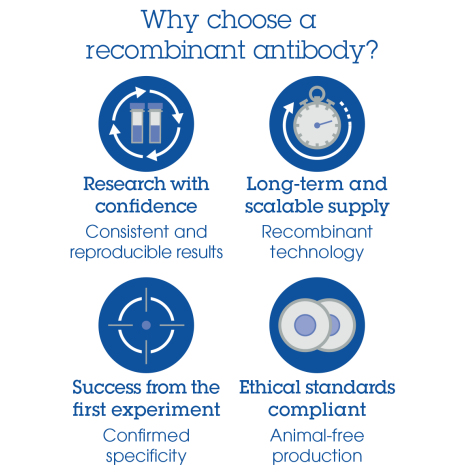
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EGR2 antibody [EPR23228-40] - BSA and Azide free (ab270755)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling EGR2 with **ab245228** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). IHC results showed nuclear staining on the mouse cerebrum (PMID: 30122531).The section was incubated with **ab245228** for 30 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab245228**).



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