abcam

Product datasheet

Anti-EGR2 antibody [EPR4004] - BSA and Azide free ab232368

Recombinant RabMAb

1 Image

Overview

Product name	Anti-EGR2 antibody [EPR4004] - BSA and Azide free
Description	Rabbit monoclonal [EPR4004] to EGR2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human EGR2 aa 1-100. The exact sequence is proprietary. Database link: P11161
Positive control	WB: LnCaP, HepG2, MCF7 and SH SY5Y cell lysates.
General notes	Ab232368 is the carrier-free version of ab108399. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. 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. ab232368 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *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.

Properties

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4004
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab232368** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

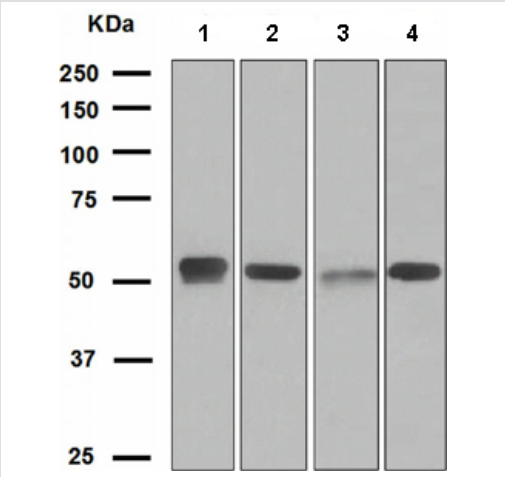
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 53 kDa.

Target

Function	Sequence-specific DNA-binding transcription factor. Binds to two specific DNA sites located in the promoter region of HOXA4.
Involvement in disease	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.
Sequence similarities	Belongs to the EGR C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers.

Post-translational modifications	Ubiquitinated by WWP2 leading to proteasomal degradation.
Cellular localization	Nucleus.

Images



Western blot - Anti-EGR2 antibody [EPR4004] - BSA and Azide free (ab232368)

All lanes : Anti-EGR2 antibody [EPR4004] (ab108399) at 1/1000 dilution

Lane 1 : LnCaP cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : MCF7 cell lysate
Lane 4 : SH SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 53 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab108399).

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