abcam

Product datasheet

Anti-Connexin 32 / GJB1 antibody [M12.13] - BSA and Azide free ab270278

1 Image

Overview

Product name	Anti-Connexin 32 / GJB1 antibody [M12.13] - BSA and Azide free
Description	Mouse monoclonal [M12.13] to Connexin 32 / GJB1 - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rat
Immunogen	Full length native protein (purified) corresponding to Rat Connexin 32/ GJB1. Rat junctional complexes. Database link: P08034
Positive control	WB: Human stomach lysate.
General notes	ab270278 is a carrier free version of ab270241. 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. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein G purified
Purification notes	Purified from bioreactor concentrate.
Clonality	Monoclonal
Clone number	M12.13
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab270278 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 a concentration of 1 - 2 µg/ml.

Target

Function	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.
Involvement in disease	Defects in GJB1 are the cause of Charcot-Marie-Tooth disease X-linked type 1 (CMTX1) [MIM:302800]; also designated CMT-X. CMTX1 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 neuropathies characterized by severely reduced motor nerve conduction velocities (NCVs) (less than 38m/s) and segmental demyelination and remyelination, and primary peripheral axonal neuropathies characterized by normal or mildly reduced NCVs and chronic axonal degeneration and regeneration on nerve biopsy. CMTX1 has both demyelinating and axonal features. Central nervous system involvement may occur. Defects in GJB1 may contribute to the phenotype 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 connexin family. Beta-type (group I) subfamily.
Cellular localization	Cell membrane. Cell junction > gap junction.

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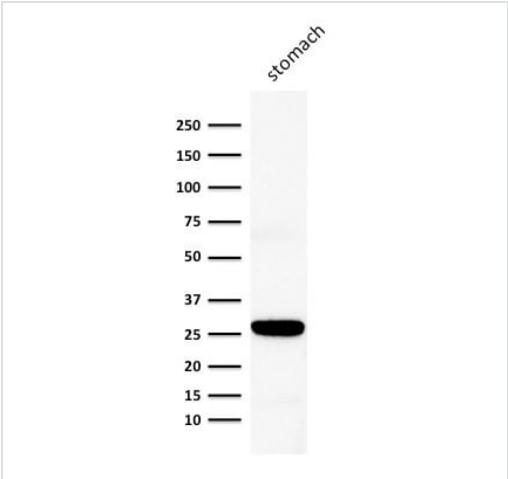
Images



Western blot - Anti-Connexin 32 / GJB1 antibody [M12.13] - BSA and Azide free (ab270278)

Anti-Connexin 32 / GJB1 antibody [M12.13] (ab270241) at 2 µg/ml + Human stomach lysate

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab270241).

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