abcam

Product datasheet

Anti-DFNB31 antibody [1D9] ab57106

1 Abreviews 1 Image

Overview

Product name	Anti-DFNB31 antibody [1D9]
Description	Mouse monoclonal [1D9] to DFNB31
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment: GLLEPTSTLV RVKKSAATLG IAIEGGANTR QPLPRIVTIQ RGGSAHNCGQ LKVGHVILEV NGLTLRGKEH REAARIIAEA FKTKDRDYID FLVTEFNVML , corresponding to amino acids 808-908 of Human DFNB31 Run BLAST with ExPASy Run BLAST with NCBI

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	1D9
Isotype	IgG2b
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab57106** 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

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WB		Use a concentration of 1 - 5 µg/ml. This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

Target

Function

Necessary for elongation and maintenance of inner and outer hair cell stereocilia in the organ of Corti in the inner ear.

Involvement in disease

Defects in WHRN are the cause of deafness autosomal recessive type 31 (DFNB31) [MIM:607084]. DFNB31 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
Defects in WHRN are the cause of Usher syndrome type 2D (USH2D) [MIM:611383]. USH is a genetically heterogeneous condition characterized by the association of retinitis pigmentosa and sensorineural deafness. Age at onset and differences in auditory and vestibular function distinguish Usher syndrome type 1 (USH1), Usher syndrome type 2 (USH2) and Usher syndrome type 3 (USH3). USH2 is characterized by congenital mild hearing impairment with normal vestibular responses.

Sequence similarities

Contains 3 PDZ (DHR) domains.

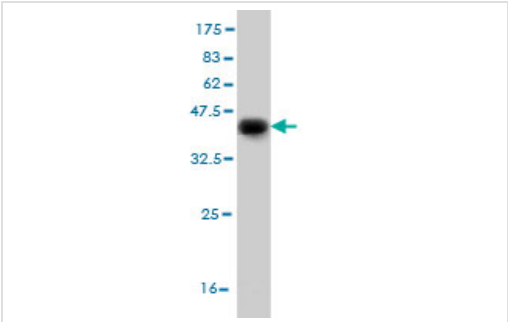
Cellular localization

Cytoplasm. Cell projection > stereocilium. Cell projection > growth cone. Detected at the level of stereocilia in inner outer hair cells of the cochlea and vestibule. Co-localizes with the growing ends of actin filaments (By similarity). Colocalizes with MPP1 in the retina, at the outer limiting membrane (OLM), outer plexifirm layer (OPL), basal bodies and at the connecting cilium.

Form

There are 4 isoforms produced by alternative splicing.

Images



Western blot - Anti-DFNB31 antibody [1D9] (ab57106)

Western blot against tagged recombinant protein immunogen using ab57106 DFNB31 antibody at 1ug/ml. Predicted band size of immunogen is 37 kDa

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