

## Product datasheet

# Anti-DFNB31 antibody [1D9] ab57106

★ ★ ★ ☆ ☆ 1 Abreviews 1 Image

### Overview

<b>Product name</b>	Anti-DFNB31 antibody [1D9]
<b>Description</b>	Mouse monoclonal [1D9] to DFNB31
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment: GLLPTSTLV RVKKAATLG IAIEGGANTR QPLPRVTIQ RGGSAHNCGQ LKVGHVILEV NGLTLRGKEH REAARIAEA FKTKDRDYID FLVTEFNVML , corresponding to amino acids 808-908 of Human DFNB31 <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>

### Properties

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

Application	Abreviews	Notes
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.

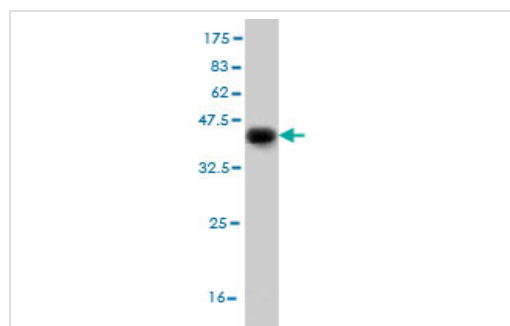
**Involvement in disease** Defects in WHRN are the cause of deafness autosomal recessive type 31 (DFNB31) [MIM:607084]. DFNB31 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of 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 plexiform layer (OPL), basal bodies and at the connecting cilium.

**Form** There are 4 isoforms produced by alternative splicing.

## Images



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

Western blot - DFNB31 antibody (ab57106)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors