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Product datasheet

Anti-TECTA antibody ab118086

2 Images

Overview

Product name	Anti-TECTA antibody
Description	Mouse monoclonal to TECTA
Host species	Mouse
Tested applications	**Suitable for:** WB, ELISA, Sandwich ELISA
Species reactivity	**Reacts with:** Recombinant fragment
	Predicted to work with: Human ⚠
Immunogen	Recombinant fragment corresponding to amino acids 1981-2081 of Human TECTA (NP_005413), with proprietary tag. Mol wt 37.11 kDa inclusive of tag.
	▣ Run BLAST with **ExPASy** ▣ Run BLAST with ⬡ NCBI
Positive control	Recombinant protein

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	pH: 7.20 Constituent: 99% PBS
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab118086** 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 - 5 μg/ml. Predicted molecular weight: 240 kDa.
ELISA		Use at an assay dependent dilution.
Sandwich ELISA		Use at an assay dependent concentration.

Target

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Function	One of the major non-collagenous components of the tectorial membrane (By similarity). The tectorial membrane is an extracellular matrix of the inner ear that covers the neuroepithelium of the cochlea and contacts the stereocilia bundles of specialized sensory hair cells. Sound induces movement of these hair cells relative to the tectorial membrane, deflects the stereocilia and leads to fluctuations in hair-cell membrane potential, transducing sound into electrical signals.
Involvement in disease	Defects in TECTA are the cause of deafness autosomal dominant type 12 (DFNA12) [MIM:601543]; also known as DFNA8. DFNA12 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 TECTA are the cause of deafness autosomal recessive type 21 (DFNB21) [MIM:603629].
Sequence similarities	Contains 1 NIDO domain. Contains 3 TIL (trypsin inhibitory-like) domains. Contains 1 VWFC domain. Contains 4 VWFD domains. Contains 1 ZP domain.
Domain	Zona pellucida domain may enable to form filaments.
Post-translational modifications	The presence of a hydrophobic C-terminus preceded by a potential cleavage site strongly suggests that tectorins are synthesized as glycosylphosphatidylinositol-linked, membrane-bound precursors. Tectorins are targeted to the apical surface of the inner ear epithelia by the lipid and proteolytically released into the extracellular compartment.
Cellular localization	Cell membrane. Secreted > extracellular space > extracellular matrix. Found in the non-collagenous matrix of the tectorial membrane.

Images
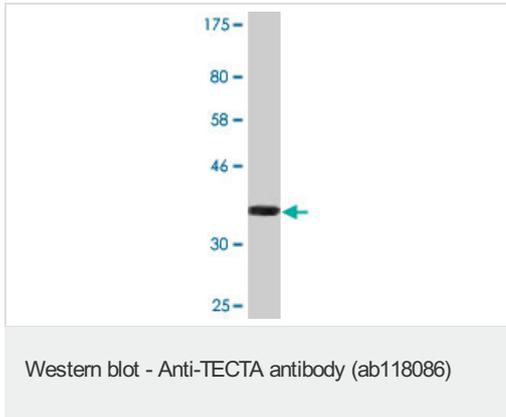
Anti-TECTA antibody (ab118086) at 1 µg/ml +
Recombinant Protein at 0.1 µg

Developed using the ECL technique.

Predicted band size: 240 kDa

Western blot - Anti-TECTA antibody (ab118086)
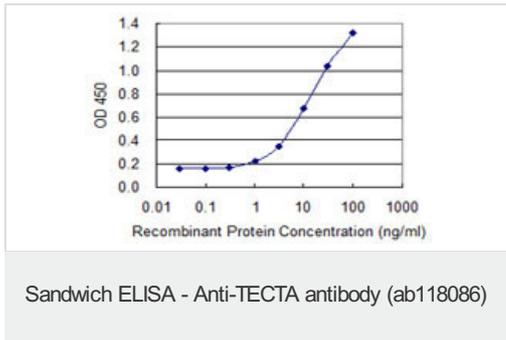
Detection limit for recombinant proprietary
tagged TECTA is 0.3 ng/ml as a capture
antibody.

Sandwich ELISA - Anti-TECTA antibody (ab118086)

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