ARG59235
anti-Otoferlin antibody [13A9]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [13A9] recognizes Otoferlin
Tested Reactivity	Hu
Tested Application	ICC/IF
Host	Mouse
Clonality	Monoclonal
Clone	13A9
Isotype	IgG1
Target Name	Otoferlin
Species	Human
Immunogen	GST fusion protein corresponding to aa. 1-395 of Human Otoferlin (Swiss-Prot: Q9HC10).
Conjugation	Un-conjugated
Alternate Names	FER1L2; DFNB6; AUNB1; DFNB9; Fer-1-like protein 2; NSRD9; Otoferlin

Application Instructions

Application table

Application	Dilution
ICC/IF	2 - 10 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 220 kDa

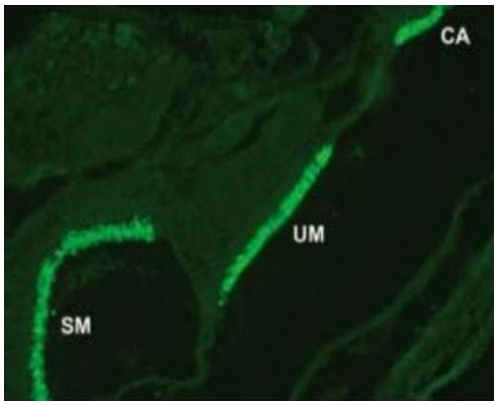
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	0.1M Tris, 0.1M Glycine and 2% Sucrose.
Stabilizer	2% Sucrose
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	OTOF
Gene Full Name	otoferlin
Background	Mutations in this gene are a cause of neurosensory nonsyndromic recessive deafness, DFNB9. The short form of the encoded protein has 3 C2 domains, a single carboxy-terminal transmembrane domain found also in the C. elegans spermatogenesis factor FER-1 and human dysferlin, while the long form has 6 C2 domains. The homology suggests that this protein may be involved in vesicle membrane fusion. Several transcript variants encoding multiple isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Key calcium ion sensor involved in the Ca(2+)-triggered synaptic vesicle-plasma membrane fusion and in the control of neurotransmitter release at these output synapses. Interacts in a calcium-dependent manner to the presynaptic SNARE proteins at ribbon synapses of cochlear inner hair cells (IHCs) to trigger exocytosis of neurotransmitter. Also essential to synaptic exocytosis in immature outer hair cells (OHCs). May also play a role within the recycling of endosomes (By similarity). [UniProt]
Calculated Mw	227 kDa
Cellular Localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type II membrane protein. Basolateral cell membrane; Single-pass type II membrane protein. Endoplasmic reticulum membrane; Single-pass type II membrane protein. Cell membrane; Single-pass type II membrane protein. [UniProt]

Images



ARG59235 anti-Otoferlin antibody [13A9] ICC/IF image

Immunofluorescence: Hair cells of the inner ear crista ampullaris (CA), utricular macula (UM) and saccularmacula (SM) stained with ARG59235 anti-Otoferlin antibody [13A9].