ARG59222
anti-Otoferlin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Otoferlin
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Otoferlin
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1831-1863 of Human Otoferlin. (QIWDADHFSADDFLGAIELDLNRFPRGAKTAKQ)
Conjugation	Un-conjugated
Alternate Names	FER1L2; DFNB6; AUNB1; DFNB9; Fer-1-like protein 2; NSRD9; Otoferlin

Application Instructions

Application table

Application	Dilution
IHC-P	0.5 - 1 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note: IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

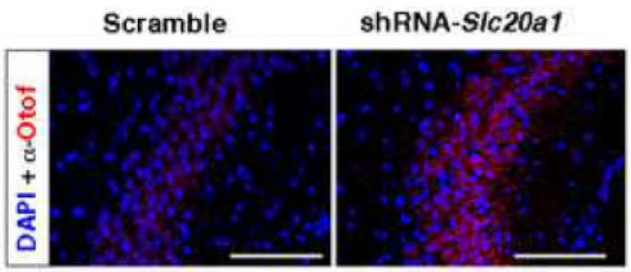
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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]

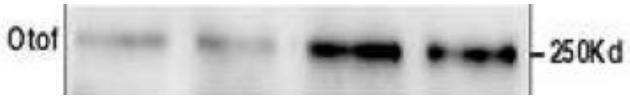
Images



ARG59222 anti-Otoferlin antibody IHC-P image

Immunohistochemistry: Mouse hippocampal neurons stained with ARG59222 anti-Otoferlin antibody.

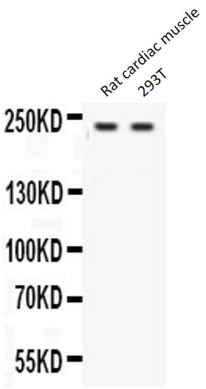
From Ramos-Brossier M et al. Research Square (2024), doi: 10.1038/s41419-023-06292-z, Fig. 5C.



ARG59222 anti-Otoferlin antibody WB image

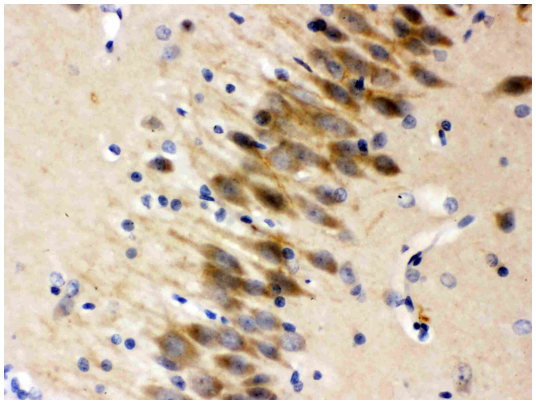
Western blot: Mouse hippocampal neurons stained with ARG59222 anti-Otoferlin antibody.

From Ramos-Brossier M et al. Research Square (2024), doi: 10.1038/s41419-023-06292-z, Fig. 5B.



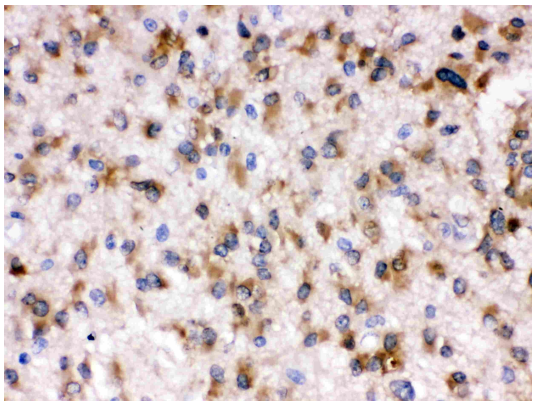
ARG59222 anti-Otoferlin antibody WB image

Western blot: 50 µg of Rat cardiac muscle and 40 µg of 293T whole cell lysate stained with ARG59222 anti-Otoferlin antibody at 0.5 µg/ml dilution.



ARG59222 anti-Otoferlin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain stained with ARG59222 anti-Otoferlin antibody.



ARG59222 anti-Otoferlin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human glioma stained with ARG59222 anti-Otoferlin antibody.