Datasheet for ABIN7043417

anti-Otopetrin 1 antibody (4th Cytoplasmic Loop)

3 Images

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Overview

Quantity:	0.2 mL
Target:	Otopetrin 1 (OTOP1)
Binding Specificity:	4th Cytoplasmic Loop, AA 374-388
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Otopetrin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EKSLDESKNPARKLD, corresponding to amino acid residues 374 - 388 of mouse Otopetrin-1
Isotype:	IgG
Characteristics:	Anti-OTOP1 Antibody (ABIN7043417, ABIN7044503 and ABIN7044504)) is a highly specific antibody directed against an epitope of the mouse protein. The antibody can be used in western blot analysis. It has been designed to recognize Otopetrin-1 from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

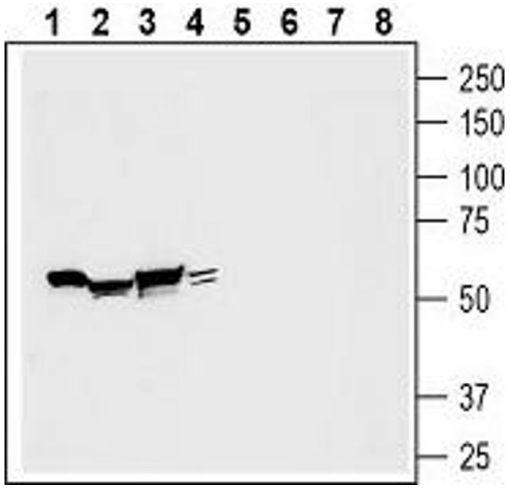
Target:	Otopetrin 1 (OTOP1)
Alternative Name:	OTOP1 (OTOP1 Products)
Background:	Alternative names: Proton Channel OTOP1, Otopetrin-1
Gene ID:	42648
NCBI Accession:	NM_177998
UniProt:	Q7RTM1

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

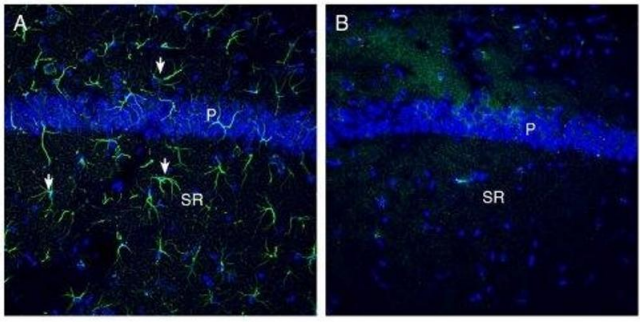
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



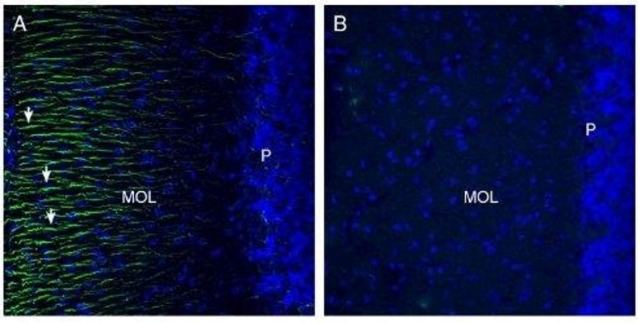
Western Blotting

Image 1. Western blot analysis of rat kidney membranes (lanes 1 and 5), mouse heart lysate (lanes 2 and 6), mouse brain lysate (lanes 3 and 7) and rat tongue lysate (lanes 4 and 8): - 1-4. Anti-OTOP1 Antibody (ABIN7043417, ABIN7044503 and ABIN7044504), (1:200). 5-8. Anti-OTOP1 Antibody, preincubated with OTOP1 Blocking Peptide (#BLP-HC005).



Immunohistochemistry

Image 2. Expression of Otopetrin-1 in mouse hippocampus. - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections with Anti-Otopetrin-1 Antibody (ABIN7043417, ABIN7044503 and ABIN7044504), (1:300), followed by goat anti-rabbit-AlexaFluor-488. A. Staining in the mouse hippocampal CA1 region, showed Otopetrin-1 immunoreactivity (green) in astrocytic profiles (arrows). B. Pre-incubation of the antibody with Otopetrin-1 Blocking Peptide (BLP-HC005), suppressed staining. Cell nuclei are stained with DAPI (blue). P= pyramidal layer, SR = stratum radiatum



Immunohistochemistry

Image 3. Expression of Otopetrin-1 in rat cerebellum. - Immunohistochemical staining of perfusion-fixed frozen rat brain sections with Anti-Otopetrin-1 Antibody (ABIN7043417, ABIN7044503 and ABIN7044504), (1:300), followed by goat anti-rabbit-AlexaFluor-488. A. Otopetrin-1 immunoreactivity (green) appeared in Bergmann glial profiles (arrows). B. Pre-incubation of the antibody with Otopetrin-1 Blocking Peptide (BLP-HC005), suppressed staining. Cell nuclei are stained with DAPI (blue). MOL = molecular layer. P= purkinje layer.