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USH1C Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19566a

Specification

USH1C Antibody(N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9Y6N9
Other Accession	Q9ES64, Q3MHQ0, NP_005700.2
Reactivity	**Human, Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**62211**
Antigen Region	**1-30**

USH1C Antibody(N-term) - Additional Information

Gene ID 10083

Other Names
Harmonin, Antigen NY-CO-38/NY-CO-37, Autoimmune enteropathy-related antigen AIE-75, Protein PDZ-73, Renal carcinoma antigen NY-REN-3, Usher syndrome type-1C protein, USH1C, AIE75

Target/Specificity
This USH1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human USH1C.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
USH1C Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USH1C Antibody(N-term) - Protein Information

Name USH1C

Synonyms AIE75

Function Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal development and maintenance of cochlear hair cell bundles (By similarity). As part of the intermicrovillar adhesion complex/IMAC plays a role in brush border differentiation, controlling microvilli organization and length. Probably plays a central regulatory role in the assembly of the complex, recruiting CDHR2, CDHR5 and MYO7B to the microvilli tips (PubMed:24725409, PubMed:26812018).

Cellular Location
Cytoplasm, cytosol. Cytoplasm, cytoskeleton. Cell projection, microvillus Note=Colocalizes with F-actin (By similarity). Detected at the tip of cochlear hair cell stereocilia (By similarity). Enriched in microvilli of the intestinal brush border (PubMed:24725409, PubMed:32209652) {ECO:0000250|UniProtKB:Q9ES64, ECO:0000269|PubMed:24725409, ECO:0000269|PubMed:32209652}

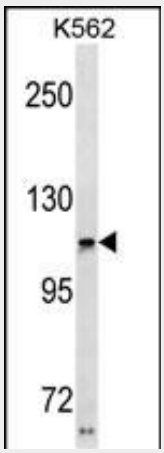
Tissue Location
Expressed in small intestine, colon, kidney, eye and weakly in pancreas. Expressed also in vestibule of the inner ear

USH1C Antibody(N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

USH1C Antibody(N-term) - Images



USH1C Antibody (N-term) (Cat. #AP19566a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the USH1C antibody detected the USH1C protein (arrow).

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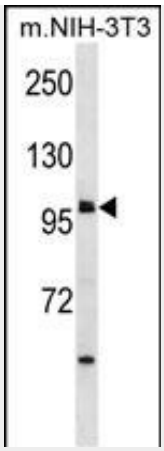

USH1C Antibody (N-term) (Cat. #AP19566a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the USH1C antibody detected the USH1C protein (arrow).

USH1C Antibody(N-term) - Background

This gene encodes a scaffold protein that functions in the assembly of Usher protein complexes. The protein contains PDZ domains, a coiled-coil region with a bipartite nuclear localization signal and a PEST degradation sequence. Defects in this gene are the cause of Usher syndrome type 1C and non-syndromic sensorineural deafness autosomal recessive type 18. Multiple transcript variants encoding different isoforms have been found for this gene.

USH1C Antibody(N-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Yan, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(9):4040-4045(2010)
Jaijo, T., et al. Invest. Ophthalmol. Vis. Sci. 51(3):1311-1317(2010)
Pan, L., et al. Proc. Natl. Acad. Sci. U.S.A. 106(14):5575-5580(2009)
Baux, D., et al. Hum. Mutat. 29 (8), E76-E87 (2008) :