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USH1C Antibody(N-term) Blocking peptide

Synthetic peptide
Catalog # BP19566a

Specification

USH1C Antibody(N-term) Blocking peptide - Product Information

Primary Accession Q9Y6N9

USH1C Antibody(N-term) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

USH1C Antibody(N-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- Blocking Peptides

USH1C Antibody(N-term) Blocking peptide - Images

USH1C Antibody(N-term) Blocking peptide - Background

This gene encodes a scaffold protein that functions in theassembly of Usher protein complexes. The protein contains PDZdomains, a coiled-coil region with a bipartite nuclear localizationsignal and a PEST degradation sequence. Defects in this gene arethe cause of Usher syndrome type 1C and non-syndromic sensorineuraldeafness autosomal recessive type 18. Multiple transcript variantsencoding different isoforms have been found for this gene.

USH1C Antibody(N-term) Blocking peptide - 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) :