abcam

Product datasheet

Anti-USH1C/Harmonin antibody ab19045

1 References 2 Images

Overview

Product name	Anti-USH1C/Harmonin antibody
Description	Goat polyclonal to USH1C/Harmonin
Host species	Goat
Specificity	This antibody is expected to recognize both reported isoforms (NP_005700.2 and NP_710142.1).
Tested applications	**Suitable for:** WB, ELISA, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide corresponding to Human USH1C/Harmonin aa 2-14 (N terminal). Sequence: DRKVAREFRHKVD Run BLAST with Run BLAST with
Positive control	Human Kidney fibroblast cell line 293 lysates.
General notes	This product was previously labelled as USH1C

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline. pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab19045** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 75 kDa.
ELISA		1/32000.
IHC-P		Use a concentration of 10 µg/ml.

Target

Function
May be involved in protein-protein interaction.

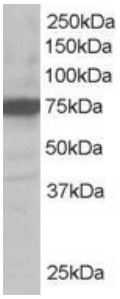
Tissue specificity
Expressed in small intestine, colon, kidney, eye and weakly in pancreas. Expressed also in vestibule of the inner ear.

Involvement in disease
Defects in USH1C are the cause of Usher syndrome type 1C (USH1C) [MIM:276904]; also known as Usher syndrome type I Acadian variety. USH is a genetically heterogeneous condition characterized by the association of retinitis pigmentosa and sensorineural deafness. Age at onset and differences in auditory and vestibular function distinguish Usher syndrome type 1 (USH1), Usher syndrome type 2 (USH2) and Usher syndrome type 3 (USH3). USH1 is characterized by profound congenital sensorineural deafness, absent vestibular function and prepubertal onset of progressive retinitis pigmentosa leading to blindness.
Defects in USH1C are the cause of deafness autosomal recessive type 18 (DFNB18) [MIM:602092]. DFNB18 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.

Sequence similarities
Contains 3 PDZ (DHR) domains.

Domain
The PDZ domain 1 mediates interactions with USH1G/SANS and SLC4A7.

Images



Western blot - Anti-USH1C/Harmonin antibody (ab19045)

ab19045 (1µg/ml) staining of 293 lysate (35µg protein in RIPA buffer) approx. 75kDa. Primary incubation was 1 hour. Detected by chemiluminescence.

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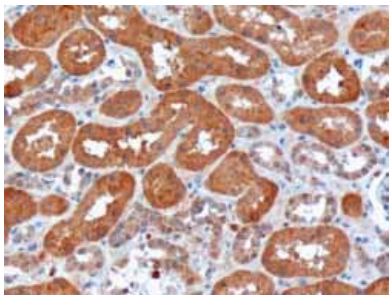

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USH1C/Harmonin antibody (ab19045)

ab19045 (10µg/ml) staining of Human Kidney by IHC-P. Microwaved antigen retrieval with citrate buffer (pH 6), HRP-staining.

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