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Anti-Cadherin 23 Antibody

Catalog # AP53803

Product Information

Application	WB, IF
Primary Accession	Q9H251
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	369494

Additional Information

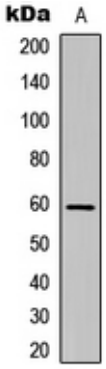
Gene ID	64072
Other Names	KIAA1774; KIAA1812; Cadherin-23; Otocadherin
Target/Specificity	Recognizes endogenous levels of Cadherin 23 protein.
Dilution	WB~~1/500 - 1/1000 IF~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

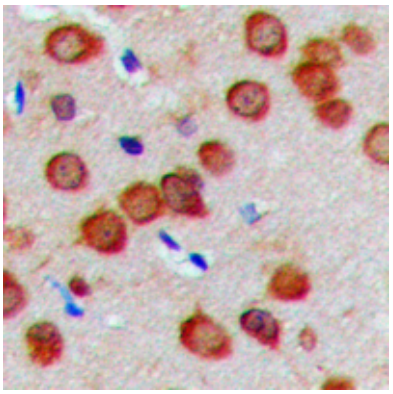
Name	CDH23 {ECO:0000303|PubMed:11138009, ECO:0000312|HGNC:HGNC:13733}
Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells. CDH23 is required for establishing and/or maintaining the proper organization of the stereocilia bundle of hair cells in the cochlea and the vestibule during late embryonic/early postnatal development. It is part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal hearing.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Particularly strong expression in the retina (PubMed:11138009). Found also in the cochlea

Background

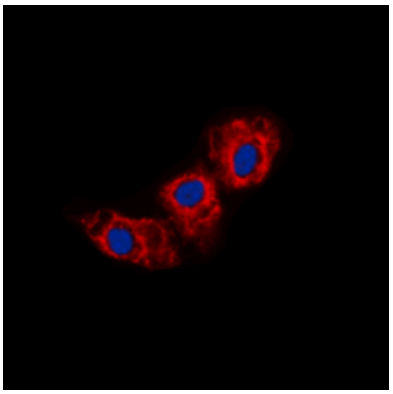
Images



Western blot analysis of Cadherin 23 expression in HEK293T (A) whole cell lysates.



Immunohistochemical analysis of Cadherin 23 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Cadherin 23 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).