

Cadherin 23 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51067

Product Information

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

Additional Information

Gene ID	64072
Other Names	Cadherin-23, Otocadherin, CDH23, KIAA1774, KIAA1812
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Cadherin 23. The exact sequence is proprietary.
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
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

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.

References

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