

Rabbit CDH23 Polyclonal Antibody | anti-CDH23 antibody

CDH23 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326823	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

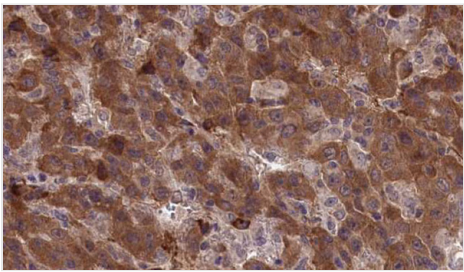
PRODUCT SYNONYMS

CDH23; Polyclonal Antibody; CDH23 Antibody; Age related hearing loss 1; Ahl 1; Ahl; Ahl1; Bob; Bobby; Bus; Bustling; Cadherin 23; Cadherin23; CDH 23; Mdfw; Modifier of deaf waddler; nmf112; nmf181; nmf252; Otocadherin; USH 1D; USH1 D; USH1D; Waltzer; anti-CDH23 antibody

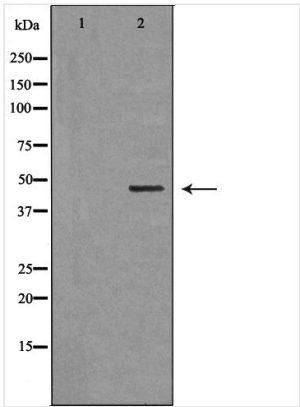
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CDH23 antibody detects endogenous levels of total CDH23
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1381
Applicable Applications for anti-CDH23 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Fusion protein of human CDH23
Subcellular Location	Cell Membrane; Single-Pass Type I Membrane Protein
Tissue Specificity	Particularly strong expression in the retina (PubMed:11138009). Found also in the cochlea.
Predicted Cross Reactivity	Pig, Bovine, Sheep
Similarity	Pig (91%), Bovine (91%), Sheep (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326823 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Mouse brain, using CDH23 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH23 antibody	Description: This gene is a member of the cadherin superfamily, whose genes encode calcium dependent cell-cell adhesion glycoproteins. The encoded protein is thought to be involved in stereocilia organization and hair bundle formation. The gene is located in a region containing the human deafness loci DFNB12 and USH1D. Usher syndrome 1D and nonsyndromic autosomal recessive deafness DFNB12 are caused by allelic mutations of this cadherin-like gene. Alternative splice variants encoding different isoforms have been described. 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. Subunit Structure: antiparallel heterodimer with PCDH15 (By similarity). Interacts with USH1C and USH1G (PubMed:19297620, PubMed:21436032). Similarity: Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain. Cadherin repeats 1 and 2 mediate calcium-dependent heterophilic interaction with PCDH15.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	284925128
NCBI GeneID	64072
NCBI Accession #	NP_001165401.1
NCBI GenBank Nucleotide #	NM_001171930.1
UniProt Accession #	Q9H251; Q5QGS1; Q5QGS2; Q5QGS5; Q5QGS6; Q5XKN2; Q6UWW1; Q96JL3; Q9H4K9; C4IXS9; F6U049
Molecular Weight	Observed: 45 kD Predicted: 370 kDa
NCBI Official Full Name	cadherin-23 isoform 3
NCBI Official Synonym Full Names	cadherin related 23
NCBI Official Symbol	CDH23
NCBI Official Synonym Symbols	PITA5; USH1D; CDHR23
NCBI Protein Information	cadherin-23
UniProt Protein Name	Cadherin-23

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdh23-antibody-immunohistochemistry-western-blot-elisa/326823>