10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PCDH15 (19H14) Mouse Monoclonal antibody

PCDH15 (19H14) Mouse Monoclonal antibody
Catalog # AP93857

Product Information

Application	WB
Primary Accession	Q96QU1
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	216069

Additional Information

Gene ID	65217
Other Names	Protocadherin-15, PCDH15, USH1F
Dilution	WB~~1:1000
Storage Conditions	-20℃

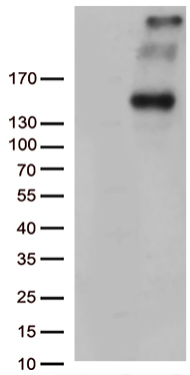
Protein Information

Name	PCDH15
Synonyms	USH1F
Function	Calcium-dependent cell-adhesion protein. Essential for maintenance of normal retinal and cochlear function.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=Efficient localization to the plasma membrane requires the presence of LHFPL5.
Tissue Location	Expressed in brain, lung, kidney, spleen and testis. Found also in the inner and outer synaptic layers, and the nerve fiber layer in adult and fetal retinas. Found in the supporting cells, outer sulcus cells and spiral ganglion of fetal cochlea Expressed in cytotoxic tumor-derived T- and NK-cell lines as well as biopsies of nasal NK/T-cell lymphomas. Not detected in normal or in vitro activated peripheral blood cells, CD4 or CD8 lymphocytes or NK cells. Isoform 3 is expressed in brain, heart, cerebellum and kidney CD1 isoforms, such as isoform 1, have a limited pattern of expression and is detected in testis, retina and cochlea. CD2 isoforms, such as isoforms 4 and 5, are expressed in heart, kidney, thymus, spleen, testis, retina and cochlea. CD3 isoforms, such as isoform 6, are widely expressed.

Background

This gene is a member of the cadherin superfamily. Family members encode integral membrane proteins that mediate calcium-dependent cell-cell adhesion. It plays an essential role in maintenance of normal retinal and cochlear function. Mutations in this gene result in hearing loss and Usher Syndrome Type IF (USH1F). Extensive alternative splicing resulting in multiple isoforms has been observed in the mouse ortholog. Similar alternatively spliced transcripts are inferred to occur in human, and additional variants are likely to occur. [provided by RefSeq, Dec 2008]

Images



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PCDH15 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PCDH15 (Cat# AP93857)(1:500). Positive lysates (100ug) and (20ug) can be purchased separately from biodragon.