

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Protocadherin-15 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 740523
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Protocadherin-15 Tyr28-Ala1376 Accession # Q96QU1
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Protocadherin-15 (PCDH-15) is a 250-270 kDa "other" member of the nonclustered group of the protocadherin family of molecules. In the adult, it is expressed on the base of hair cell stereocilia in the Organ of Corti, on cerebellar granule cells, and on rod and cone photoreceptors. In the ear, it is expressed as a homodimer, and binds (in trans) to cadherin 23 homodimers on adjacent stereocilia. Mature human PCDH-15 is a type I transmembrane protein that is 1929 amino acids (aa) in length. It contains a 1350 aa extracellular domain (ECD) (aa 27-1376) plus a 558 aa cytoplasmic region. There are 11 cadherin domains in the ECD (aa 40-1259). Multiple splice forms are reported. One is a soluble 110 kDa form that shows a five aa substitution for aa 957-1955. Another contains a seven aa substitution for aa 1119-1125. Others show substitutions or deletions in either the extracellular or cytoplasmic domains. Over aa 27-1376 (the ECD), human PCDH-15 shares 95% aa sequence identity with mouse PCDH-15.

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