

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Protocadherin-8 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Protocadherin-1, -10, or -15 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 562615
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Protocadherin-8 Lys30-Thr479 Accession # O95206
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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 8 (PCDH-8) is a 160 kDa group F member of the protocadherin family of molecules. It is expressed in breast epithelium, the synaptic membranes of neurons, and presumably forms Ca⁺⁺-dependent homophilic complexes. In breast, it is believed to contribute to a stable epithelial architecture, while in brain, it impacts LTP. Mature human PCDH-8 is a type I transmembrane protein that is 1041 amino acids (aa) in length. It contains a 720aa extracellular domain (ECD) (aa 30-749) plus a 300 aa cytoplasmic region. There are six cadherin domains in the ECD (aa 30-723). Multiple splice variants exist. Two show deletions of aa 134-607 and 781-877, respectively, while a third shows a six aa substitution for aa 365-527. Over aa 30-689, human PCDH-8 shares 93% aa identity with mouse PCDH-8.

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