

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Protocadherin alpha 1 (PCDHα1) in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human Protocadherin α1 Gln30-Pro689 Accession # Q9Y5I3
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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 α1 (PCDHα1) is a group A member of the Protocadherin family of molecules. It is expressed in synaptic membranes of neurons, forms obligate Ca⁺⁺ independent complexes with various PCDH γ family members and demonstrates heterophilic binding activity towards β1 integrins. Human PCDHα1 is 921 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 668 aa extracellular domain (ECD) plus a 232 aa cytoplasmic region. Both regions contribute to PCDH-γ binding. There are six cadherin domains in the ECD. ADAM10 cleavage generates an 80-90 kDa soluble fragment and a soluble splice form exists that is missing aa 535-798. Over aa 30-689, human PCDHα1 shares 83% aa identity with mouse PCDHα1.

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