

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Cadherin-4/R-Cadherin in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human Cadherin-4/R-Cadherin and recombinant mouse (rm) Cadherin-2 is observed and less than 1% cross-reactivity with
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Cadherin-4/R-Cadherin His21-Ala731 Accession # P39038
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

Cadherin-4 (also Retinal/R-Cadherin) is a 120 kDa (100 kDa predicted) member of the classical cadherin family of molecules. It is expressed on mammary epithelium, olfactory bulb neurons, cerebellar granule cells, vascular smooth muscle, astrocytes and pancreatic β -cells. Cadherin-4 forms both homodimers and heterodimers with N-cadherin. These complexes will oligomerize, providing sources for adhesion and migration. Cadherin-4 also binds to KLRG1 expressed on NK, T and Treg lymphocytes. Mouse cadherin-4 precursor is 893 amino acids (aa) in length. It contains a 146 aa propeptide (aa 21-166) coupled to a 746 amino acid (aa) type I transmembrane mature protein (aa 167-913). The mature region possesses a 565 aa extracellular domain (aa 167-731) plus a 160 aa cytoplasmic region (aa 753-913). Consistent with classical cadherins, cadherin-4 contains five cadherin repeats in the extracellular domain (aa 167-721). There is one potential splice form that shows a 44 aa substitution for aa 291-913. Over aa 21-731, mouse cadherin-4 shares 98% and 93% aa identity with rat and human cadherin-4, respectively.

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