

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Contactin-3 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human Contactin-5 and recombinant mouse Contactin-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Contactin-3 Glu20-Thr1003 Accession # Q07409
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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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

Contactin-3 (also BIG-1 in rat and PANG in mouse) is a 150 kDa member of the TAG/F3 subgroup, contactin family, Ig superfamily hierarchy. It is a GPI linked glycoprotein that is expressed on cerebellar Purkinje cells, amygdaloid and thalamic neurons and olfactory granule cells. Its exact function is unclear, but it likely mediates cell-cell interaction and may promote neurite outgrowth. Human Contactin-3 preproprecursor is 1028 amino acids (aa) in length. It contains a 19 aa signal sequence, a 983 aa mature region and a 26 aa cleavable C-terminal prosegment. The mature region shows six C2- type IG like domains (aa 26-593), followed by four fibronectin type III modules (aa 598-992). There is one potential alternate start site at Met128. Over aa 26-992, human Contactin-3 shares 92% aa identity with mouse Contactin-3.

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