

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | 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.                                                             |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Contactin-3<br>Glu20-Thr1003<br>Accession # Q07409                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

#### PRODUCT SPECIFIC NOTICES

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