

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Contactin-3 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) Contactin-3 and no cross-reactivity with recombinant mouse (rm) Contactin-1, -4, -6, rhContactin-2 or -5 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 524518
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Contactin-3 Glu20-Thr1003 Accession # Q07409
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	bEnd.3 mouse endothelioma cell line

#### 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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. It likely mediates cell-cell interaction and may promote neurite outgrowth. The mouse 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 32-593), followed by four Fibronectin type III modules (aa 598-992). There is one potential alternate start site at Met128. Over aa 26-992, mouse Contactin-3 shares 92% and 96% aa identity with human and rat Contactin-3, respectively.

#### PRODUCT SPECIFIC NOTICES

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