

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 524518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Contactin-3 Glu20-Thr1003 Accession # Q07409
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	bEnd.3 mouse endothelioma cell line

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. <ul style="list-style-type: none"> 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. 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.

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