

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 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.