

DESCRIPTION

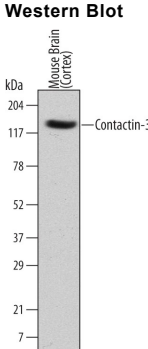
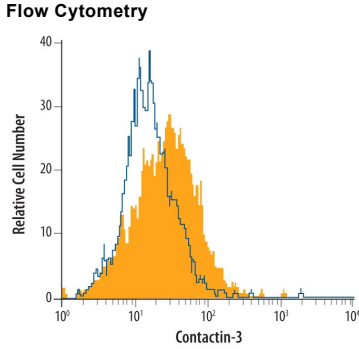
Species Reactivity	Mouse
Specificity	Detects mouse Contactin-3 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) Contactin-3 and no cross-reactivity with recombinant mouse (rm) Contactin-1, -4, -6, rhContactin-2 or -5 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
Western Blot	2 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p>  <p>Detection of Mouse Contactin-3 by Western Blot. Western blot shows lysates of mouse brain (cortex) tissue. PVDF Membrane was probed with 2 µg/mL of Rat Anti-Mouse Contactin-3 Monoclonal Antibody (Catalog # MAB6644) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Contactin-3 at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 7.</p>	<p>Flow Cytometry</p>  <p>Detection of CNTN-3 in bEnd.3 mouse endothelioma cell line by Flow Cytometry. bEnd.3 mouse endothelioma cell line was stained with Rat Anti-Mouse Contactin-3 Monoclonal Antibody (Catalog # MAB6644, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B).</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.