

DESCRIPTION

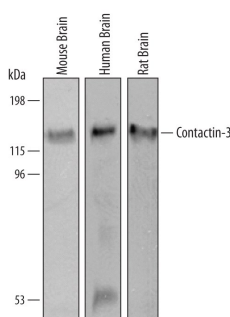
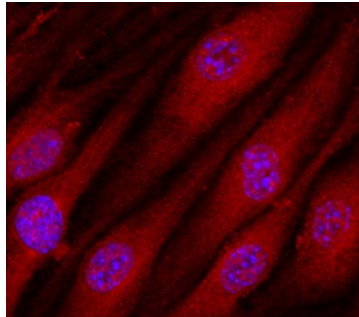
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Contactin-3 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human Contactin-5 and recombinant mouse Contactin-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-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 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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse/Rat Contactin-3 by Western Blot. Western blot shows lysates of mouse, human, and rat brain tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat Contactin-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5539) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Contactin-3 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunocytochemistry</p>  <p>Contactin-3 in bEnd.3 Mouse Cell Line. Contactin-3 was detected in immersion fixed bEnd.3 mouse endothelioma cell line using Goat Anti-Human/Mouse/Rat Contactin-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5539) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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. Its exact function is unclear, but it likely mediates cell-cell interaction and may promote neurite outgrowth. Human Contactin-3 prepropeptide 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.