

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Contactin-3 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse Contactin-3 is observed, and less than 5% cross-reactivity with recombinant human (rh) Contactin-4 and rhContactin-5 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Contactin-3 Pro26-Pro992 Accession # Q9P232
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Contactin-3, also known as BIG-1, CNTN3 and PANG, is a 150 kDa member of the TAG/F3 subgroup of Contactin neuronal adhesion proteins (1, 2). Mature human Contactin-3 consists of six immunoglobulin-like domains, a flexible linker region, four fibronectin type III domains, and a GPI anchor (3, 4). Human Contactin-3 shares 92% aa sequence identity with mouse and rat Contactin-3. Contactin-3 is primarily expressed in the brain in discrete regions including the frontal lobe, occipital lobe, cerebellum, amygdala, and hippocampus (5, 6). Alternative splicing in rat may generate a soluble isoform (4). Mouse plasmacytoma cell lines produce multiple transcripts of Contactin-3 due to the presence of IAP proviruses (3). Immobilized Contactin-3 promotes neurite outgrowth from rat hippocampal neurons (4).

PRODUCT SPECIFIC NOTICES

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