

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Contactin-6 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human (rh) Contactin-6 is observed, and less than 5% cross-reactivity with recombinant mouse (rm) Contactin-3, rmConta
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Contactin-6 Glu20-Ser998 Accession # Q9JMB8
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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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-6, also known as NB-3, is a 130 kDa member of the TAG/F3 subgroup of Contactin GPI-linked neuronal adhesion proteins (1, 2). Mature mouse Contactin-6 consists of six immunoglobulin-like domains, a flexible linker region, four fibronectin type III domains, and a GPI anchor (3-5). Mouse Contactin-6 shares 90% and 96% amino acid (aa) sequence identity with human and rat Contactin-6, respectively. Alternate splicing generates an isoform with a 17 aa deletion in the first Ig-like domain (3). Contactin-6 expression is upregulated postnatally in the cerebellum, brainstem, and hippocampus, and it shows differential expression within various structures of the brain (3, 5-7). In the cerebellum, it is presynaptically localized at synapses between excitatory glutamatergic parallel fibers and Purkinje cells (7). Contactin-6 associates *in cis* with CHL-1 and *in trans* with Notch-1 on oligodendrocytes (6, 8). Its binding to Notch-1 triggers translocation of the Notch intracellular domain to the nucleus and promotes oligodendrogenesis (6). Contactin-6 function is important in the postnatal development and function of the cerebellum, as shown in knockout mice which exhibit poor motor coordination (5, 7).

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