

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Contactin-1 in direct ELISAs. Detects human, mouse, and rat Contactin-1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Contactin-1 Glu21-Ser993 Accession # CAA79696
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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
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-1 (CNTN1) is a member of the contactin subgroup within the immunoglobulin superfamily. It was originally designated contactin in human, F3 in rodents, and F11 in chicken. Other members of this family in human include Contactin-2 (TAG-1), Contactin-5 (NB-2), and Contactin-6 (NB-3). Additional family members have been described in other species. CNTN1 shares less than 50% amino acid sequence identity with the other contactins. The human and rodent CNTN1 proteins share 96% sequence identity. The 998 amino acid mature protein contains 6 Ig-like domains and 4 fibronectin type III-like domains, and is attached to the membrane by a GPI anchor. CNTN1 is differentially expressed in numerous neuronal tissues and functions in nervous system development. It associates with two other cell-surface proteins believed to participate in signal transduction, receptor protein tyrosine phosphatase beta (RPTPβ) and Contactin-associated protein (Caspr). Reported ligands include Nr-CAM and the extracellular matrix glycoprotein, tenascin.

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