

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Caspr2 in direct ELISAs and human, mouse, and rat Caspr2 in Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human Caspr1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Caspr2 isoform 1 Pro29-Ala1262 Accession # Q9UHC6
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Caspr2 (CNTNAP2, Contactin-associated protein-like 2 and Cell recognition molecule Caspr2) is a 160-170 kDa glycoprotein, a member of the neurexin family of proteins. It is predominantly expressed in nervous system and likely play a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Seems to demarcate the juxtaparanodal region of the axo-glial junction. Caspr2 and closely related molecule Caspr/Paranodin demarcate distinct subdomains in myelinated axons. While contactin-associated protein (Caspr) is present at the paranodal junctions, Caspr2 is precisely colocalized with Shaker-like K⁺ channels in the juxtaparanodal region. Over aa 29-1262, human CASPR2 shares 94% aa sequence identity with mouse Caspr2.

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