Human Caspr1 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7548V
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Caspr1 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human Caspr2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Caspr1 Trp20-Gly1280 Accession # P78357
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

CASPR1 (Contactin-ASsociated PRotein-1; also Neurexin-4 and p190) is a 180-195 kDa member of the neurexin family of proteins. It is expressed on both axons and dendrites of neurons, and likely serves the critical function of directing the movement of low MW contactin, AMPA receptors, and Na+ plus K+ channels to appropriate sites on the cell membrane. This indicates participation in key processes such as myelination and excitatory neurotransmission. Mature human CASRP1 is a 1365 amino acid (aa) type I transmembrane protein. It contains a 1264 aa extracellular region (aa 20-1283) plus an 80 aa cytoplasmic domain. The extracellular region is highly modular, possessing one discoidin (carbohydrate-binding) domain (aa 24-158), four laminin G-like domains (aa 203-513, 813-956 and 1088-1250), two EGF-like domains (aa 540-577 and 957-996) and one fibrinogen C-terminal globular regions (aa 576-795). There is one potential alternative start site at Met507. Over aa 20-1280, human CASPR1 shares 94% aa sequence identity with mouse CASPR1.

PRODUCT SPECIFIC NOTICES

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475