

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neuroplastin in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Neuroplastin 55 isoform 1 Gln29-Ser219 Accession # Q9Y639.1
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

Neuroplastin (NPTN; also stromal cell-derived receptor 1 and Np55) is a 52-57 kDa member of the Ig-superfamily. It is widely expressed, and likely serves as a cell adhesion molecule in multiple tissues. Human Neuroplastin is 282 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains two Ig-like domains (aa 32-119 and 122-213) and a 38 aa cytoplasmic region (aa 245-282). There is a brain-enriched 65 kDa form (Np65) that negatively regulates LTP in the hippocampus. It contains an N-terminal 116 aa Ig-like domain-containing insert after Asn30, and interacts homophilically. There is a third potential splice variant that shows an alternate start site at Met85 accompanied by a 23 aa substitution for aa 200-282. Over aa 29-229, human Neuroplastin is 91% aa identical to mouse Neuroplastin.

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