

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Neuroplastin 65 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human Neuroplastin 55 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Neuroplastin 65 Gln29-His336 Accession # NP_036560
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 homotypically. Notably, human and rodent Np65 expression patterns are different in brain, with rodent Np65 not predominating in cerebellum. Over aa 29-336, human Np65 is 95% aa identical to mouse Np65.

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