

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Ninjurin-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Ninjurin-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Ninjurin-2 Met1-Thr65 Accession # Q9NZG7
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

Ninjurin-2 (nerve injury-induced protein 2) is a 20-22 kDa member of the Ninjurin family of transmembrane (TM) proteins. It is expressed by multiple cell types, including Schwann cells, myenteric plexus and sensory neurons, and lymphocytes and participates in intercellular homophilic binding. Human Ninjurin-2 is 142 amino acids (aa) in length. It has an unusual membrane orientation. There is a 65 aa N-terminal extracellular domain (ECD) (aa 1-65) that contains one phosphorylation site at Ser3, followed by a TM segment, a cytoplasmic region, a second TM segment and a C-terminal ECD (aa 128-142). One potential alternate start site exists 46 aa upstream of the standard form start site. Over aa 1-65, human Ninjurin-2 is 71% aa identical to mouse Ninjurin-2.

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