

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ninjurin-1 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Ninjurin-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 758943
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Ninjurin-1 Asp2-Val81 Accession # Q92982
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.

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-1 (nerve injury-induced protein 1) is a 20-22 kDa member of the Ninjurin family of transmembrane (TM) proteins. It is expressed by Schwann cells, neurons and hepatocytes and participates in intercellular homophilic binding during nerve regeneration. Human Ninjurin-1 is 152 amino acids in length. It has an unusual membrane orientation. There is an 80 amino acid (aa) N-terminal extracellular domain (ECD) (aa 1-80), followed by a TM segment, a cytoplasmic region, a second TM segment and a C-terminal ECD (aa 142-152). Homophilic binding is divalent-cation dependent and occurs between Pro26 and Asn37. Over aa 1-80, human Ninjurin-1 shares 84% aa sequence identity with mouse Ninjurin-1. Human Ninjurin-1 shares only 50% aa sequence identity with human Ninjurin-2.

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