

DESCRIPTION

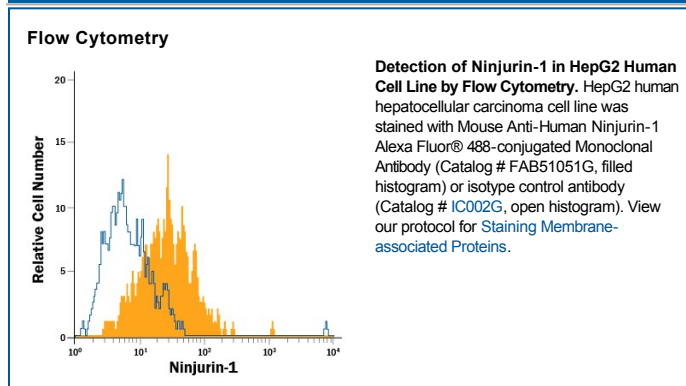
Species Reactivity	Human
Specificity	Detects human Ninjurin-1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Ninjurin-2 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 758926
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Ninjurin-1 Asp2-Val81 Accession # Q92982
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 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 phosphoprotein member of the Ninjurin family of transmembrane (TM) proteins. It is either constitutively or inducibly expressed by Schwann cells, PNS neuron satellite cells, neutrophils, endothelial cells, macrophages, podocytes 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. With respect to human Ninjurin-2, which has only 65 aa in its N-terminal ECD, human Ninjurin-1 shares 51% aa sequence identity with human Ninjurin-2.

PRODUCT SPECIFIC NOTICES

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