Datasheet for ABIN968172

anti-NINJ1 antibody (AA 1-152)

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Overview

Quantity:	150 µg
Target:	NINJ1
Binding Specificity:	AA 1-152
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NINJ1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Human Ninjurin aa. 1-152
Clone:	50-Ninjurin
Isotype:	IgG2a
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	NINJ1
Alternative Name:	Ninjurin (NINJ1 Products)
Background:	Ninjurin is a protein whose expression is dramatically increased after sciatic nerve transection and crush injuries. The Ninjurin gene encodes for a protein of 152 amino acids with two putative transmembrane domains. Ninjurin was iodinated in vivo and promoted the aggregation of Jurkat cells expressing Ninjurin, indicating a portion of Ninjurin is exposed to the cell surface. The adhesive properties of Ninjurin were energy and temperature dependent, required Ca2+ and Mg2+, and the integrity of the cytoskeleton. Also, the adhesion domain of Ninjurin is located at the extracellular NH2-terminal domain. Although its predicted mass is 16 kDa, Ninjurin migrates as a 18-22 kDa protein in SDS-PAGE, depending on the cell line or tissue. mRNA analysis revealed that Ninjurin is widely expressed with the highest levels in liver, thymus, heart, and the lowest level in brain.
Molecular Weight:	18-22 kDa

Application Details

Comment:	Related Products: ABIN968587, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Chen, Coustan-Smith, Suzuki, Neale, Mihara, Pui, Campana: "Identification of novel markers for monitoring minimal residual disease in acute lymphoblastic leukemia." in: **Blood**, Vol. 97, Issue 7, pp. 2115-20, (2001) (PubMed).

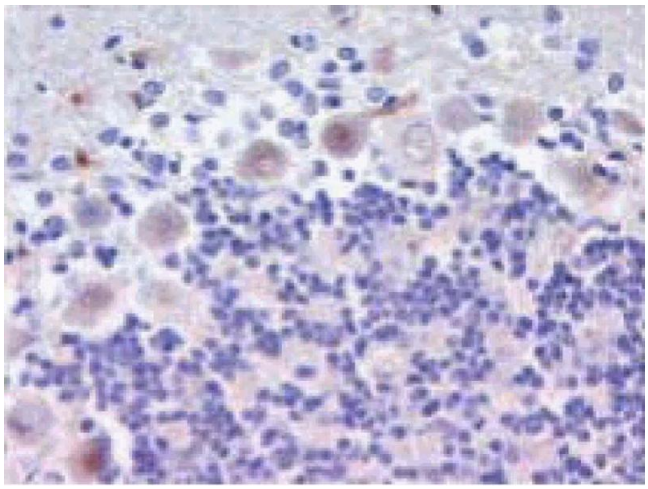
Araki, Zimonjic, Popescu, Milbrandt: "Mechanism of homophilic binding mediated by ninjurin, a novel widely expressed adhesion molecule." in: **The Journal of biological chemistry**, Vol. 272, Issue 34, pp. 21373-80, (1997) (PubMed).

Araki, Milbrandt: "Ninjurin, a novel adhesion molecule, is induced by nerve injury and promotes axonal growth." in: **Neuron**, Vol. 17, Issue 2, pp. 353-61, (1996) (PubMed).

Images

Western Blotting

Image 1. Western blot analysis of Ninjurin on HepG2 lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Ninjurin.



Immunohistochemistry

Image 2. Immunofluorescent staining on Rat Brain sections.

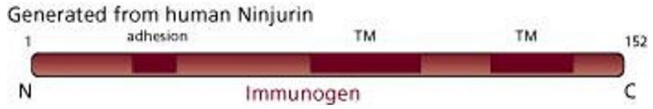


Image 3.

