

Ninjurin 2 Rabbit pAb

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Catalog # AP54377

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NZG7
Predicted	Rat, Dog, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15680
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Ninjurin 2
Epitope Specificity	1-100/142
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ninjurin family proteins are multi-pass membrane proteins induced by nerve injury in Schwann cells and dorsal root ganglion neurons. Nunjurin proteins act as homophilic cell adhesion molecules that promote axonal growth. Ninjurin proteins also play a role in the formation and function of other tissues. Ninjurin-1 is widely expressed in adult and embryonic tissues, particularly those with epithelial origin. Ninjurin-2 is also widely expressed, with highest levels in adult bone marrow and peripheral blood lymphocytes and embryo liver, thymus and heart. The genes that encode the Ninjurin proteins map to a region known to cause several genetic disorders, including hereditary sensory neuropathy type I and type II (HSN1 and HSN2). However, no link between mutations in the genes encoding Ninjurins and the diseases have been found.

Additional Information

Gene ID	4815
Other Names	Ninjurin-2, Nerve injury-induced protein 2, NINJ2 {ECO:0000303 PubMed:10627596, ECO:0000312 HGNC:HGNC:7825}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NINJ2 {ECO:0000303 PubMed:10627596, ECO:0000312 HGNC:HGNC:7825}
Function	Its role is unclear (PubMed: 33472215 , PubMed: 38614101 , PubMed: 39667936). In contrast to NINJ1 paralog, does not mediate plasma membrane rupture (cytolysis) downstream of necroptotic and pyroptotic programmed cell death (PubMed: 33472215 , PubMed: 38614101 , PubMed: 39667936). While it is able to oligomerize and form filaments, filaments are curved toward the intracellular space, preventing circularization to mediate plasma membrane rupture (PubMed: 39667936). May act as a homophilic transmembrane adhesion molecule involved in nerve regeneration (PubMed: 10627596). Promotes axonal growth (PubMed: 10627596).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Widely expressed. In adult, higher expression in the bone marrow and peripheral blood lymphocytes, medium in the lung, lymph node, thyroid, uterus, thymus, spleen, prostate and skeletal muscle, lower in the liver, placenta, brain, heart and kidney. In embryo, higher expression in the thymus, heart and liver, lower in the spleen, lung, brain and kidney.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.