

NINJ1 / Ninjurin Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16414**Specification****NINJ1 / Ninjurin Antibody (C-Terminus) - Product Information**

Application	IHC, IF
Primary Accession	O92982
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16kDa KDa

NINJ1 / Ninjurin Antibody (C-Terminus) - Additional Information**Gene ID** 4814**Other Names**

Ninjurin-1, Nerve injury-induced protein 1, NINJ1

Target/Specificity

NINJ1 antibody is human, mouse and rat reactive.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

NINJ1 / Ninjurin Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

NINJ1 / Ninjurin Antibody (C-Terminus) - Protein Information**Name** NINJ1 {ECO:0000303|PubMed:33472215, ECO:0000312|HGNC:HGNC:7824}**Function**

[Ninjurin-1]: Effector of necroptotic and pyroptotic programmed cell death that mediates plasma membrane rupture (cytolysis) (PubMed: [33472215](http://www.uniprot.org/citations/33472215) target="_blank">33472215, PubMed: [36468682](http://www.uniprot.org/citations/36468682) target="_blank">36468682, PubMed: [37196676](http://www.uniprot.org/citations/37196676) target="_blank">37196676, PubMed: [37198476](http://www.uniprot.org/citations/37198476) target="_blank">37198476). Acts downstream of Gasdermin (GSDMA, GSDMB, GSDMC, GSDMD, or GSDME) or MLKL during pyroptosis or necroptosis, respectively: oligomerizes in response to death stimuli and promotes plasma membrane rupture by introducing hydrophilic faces of 2 alpha helices into the hydrophobic membrane, leading to release intracellular molecules named damage- associated molecular patterns (DAMPs) that propagate the inflammatory response (PubMed: [33472215](http://www.uniprot.org/citations/33472215) target="_blank">33472215, PubMed: [36468682](http://www.uniprot.org/citations/36468682) target="_blank">36468682, PubMed: [37196676](http://www.uniprot.org/citations/37196676) target="_blank">37196676).

target="_blank">37196676, PubMed:37198476). Acts as a regulator of Toll-like receptor 4 (TLR4) signaling triggered by lipopolysaccharide (LPS) during systemic inflammation; directly binds LPS (PubMed:26677008). Involved in leukocyte migration during inflammation by promoting transendothelial migration of macrophages via homotypic binding (By similarity). Promotes the migration of monocytes across the brain endothelium to central nervous system inflammatory lesions (PubMed:22162058). Also acts as a homophilic transmembrane adhesion molecule involved in various processes such as axonal growth, cell chemotaxis and angiogenesis (PubMed:8780658, PubMed:9261151, PubMed:33028854). Promotes cell adhesion by mediating homophilic interactions via its extracellular N-terminal adhesion motif (N-NAM) (PubMed:33028854). Involved in the progression of the inflammatory stress by promoting cell-to-cell interactions between immune cells and endothelial cells (PubMed:22162058, PubMed:26677008, PubMed:32147432). Plays a role in nerve regeneration by promoting maturation of Schwann cells (PubMed:8780658, PubMed:9261151). Acts as a regulator of angiogenesis (PubMed:33028854). Promotes the formation of new vessels by mediating the interaction between capillary pericyte cells and endothelial cells (By similarity). Promotes osteoclasts development by enhancing the survival of perfusion osteoclasts (By similarity). Also involved in striated muscle growth and differentiation (By similarity).

Cellular Location

[Ninjurin-1]: Cell membrane; Multi-pass membrane protein. Synaptic cell membrane {ECO:0000250|UniProtKB:O70131}; Multi-pass membrane protein

Tissue Location

Widely expressed in both adult and embryonic tissues, primarily those of epithelial origin

Volume

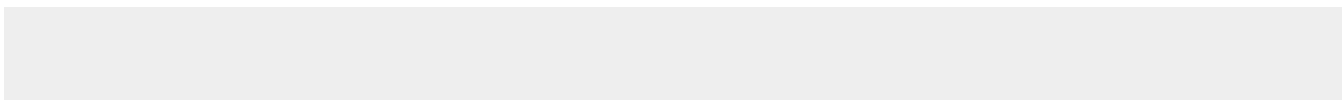
50 µl

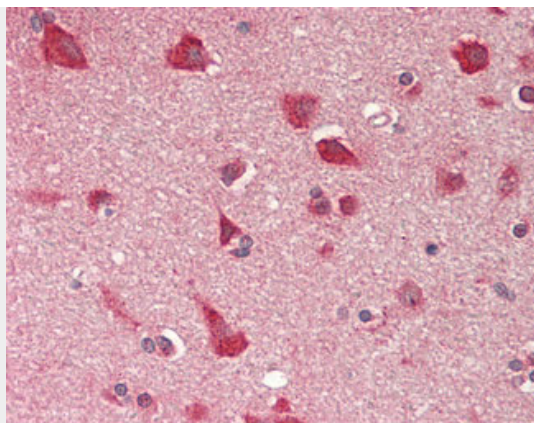
NINJ1 / Ninjurin Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

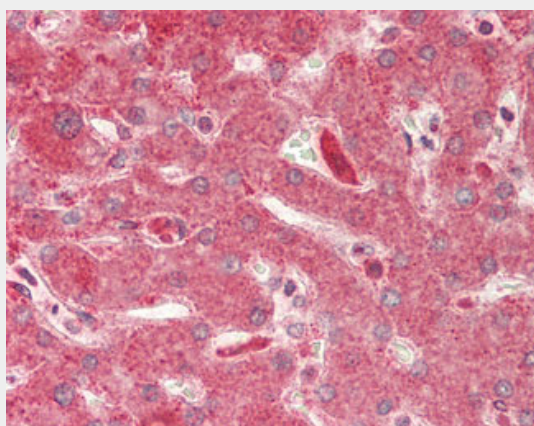
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NINJ1 / Ninjurin Antibody (C-Terminus) - Images

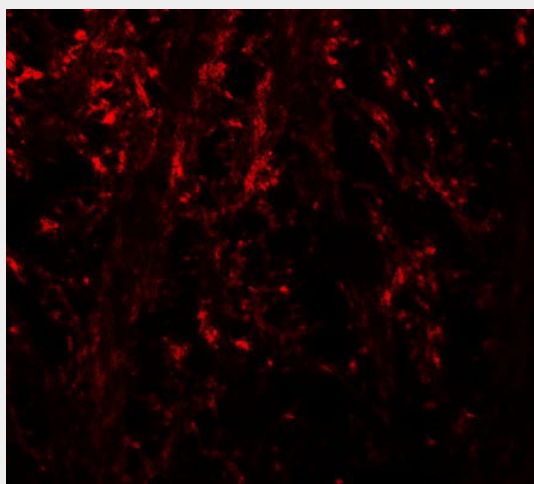




Human Brain, Cortex: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of NINJ1 in mouse brain tissue with NINJ1 antibody at 20 ug/ml.

NINJ1 / Ninjurin Antibody (C-Terminus) - Background

Homophilic cell adhesion molecule that promotes axonal growth. May play a role in nerve regeneration and in the formation and function of other tissues. Cell adhesion requires divalent cations.

NINJ1 / Ninjurin Antibody (C-Terminus) - References

Araki T.,et al.Neuron 17:353-361(1996).
Chadwick B.P.,et al.Genomics 47:58-63(1998).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.