Human/Mouse/Rat Ninjurin-2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5056

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Ninjurin-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Ninjurin-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Ninjurin-2 Met1-Thr65 Accession # Q9NZG7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

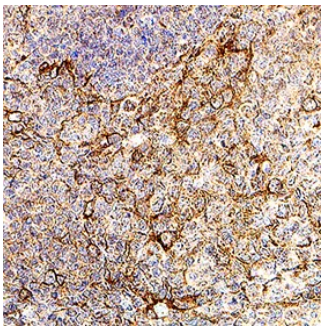
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Immunohistochemistry	3-15 µg/mL	Immersion fixed paraffin-embedded sections of Human Tonsil

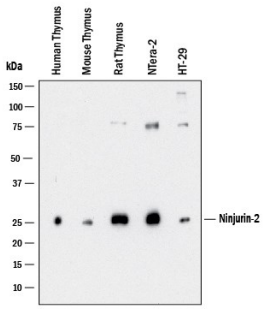
DATA

Immunohistochemistry



Detection of Ninjurin-2 in Human Tonsil Ninjurin-2 was detected in immersion fixed paraffin-embedded sections of Human Tonsil using Sheep Anti-Human/Mouse/Rat Ninjurin-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5056) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Sheep IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC006). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface on lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Western Blot



Detection of Human/Mouse/Rat Ninjurin-2 by Western Blot. Western blot shows lysates of human thymus, mouse thymus, rat thymus, NTera-2 human testicular embryonic carcinoma cells and HT-29 human colon adenocarcinoma cells. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse/Rat Ninjurin-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5056) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Ninjurin-2 at approximately ~26kDa kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Ninjurin-2 (nerve injury-induced protein 2) is a 20-22 kDa member of the Ninjurin family of transmembrane (TM) proteins. It is expressed by multiple cell types, including Schwann cells, myenteric plexus and sensory neurons, and lymphocytes and participates in intercellular homophilic binding. Human Ninjurin-2 is 142 amino acids (aa) in length. It has an unusual membrane orientation. There is a 65 aa N-terminal extracellular domain (ECD) (aa 1-65) that contains one phoshorylation site at Ser3, followed by a TM segment, a cytoplasmic region, a second TM segment and a C-terminal ECD (aa 128-142). One potential alternate start site exists 46 aa upstream of the standard form start site. Over aa 1-65, human Ninjurin-2 is 71% aa identical to mouse Ninjurin-2.

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