Product Datasheet

N-WASP Antibody - BSA Free
NBP1-82512

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 7

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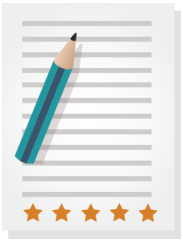
www.novusbio.com/NBP1-82512

Updated 4/13/2025 v.20.1



NBP1-82512

N-WASP Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

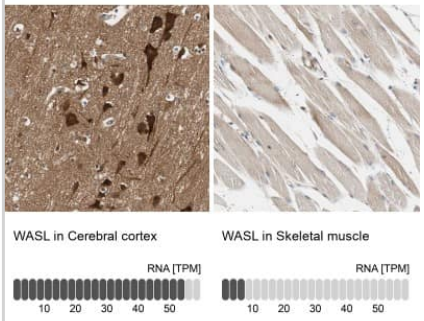
Host	Rabbit
Gene ID	8976
Gene Symbol	WASL
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DHQVPTTAGNKAALLDQIREGAQLKKVEQNSRPVSCSGRDALLDQIRQGIQLK SVADGQESTPPTPAPTSGIVGALMEVMQKRS

Product Application Details

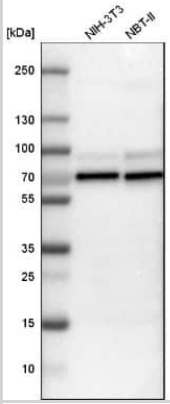
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended.

Images

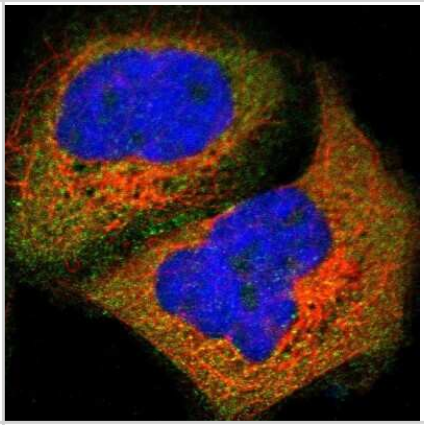
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining in human cerebral cortex and skeletal muscle tissues . Corresponding WASL RNA-seq data are presented for the same tissues.



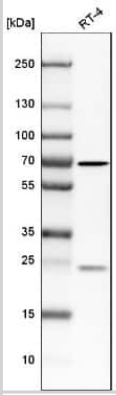
Western Blot: N-WASP Antibody [NBP1-82512] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



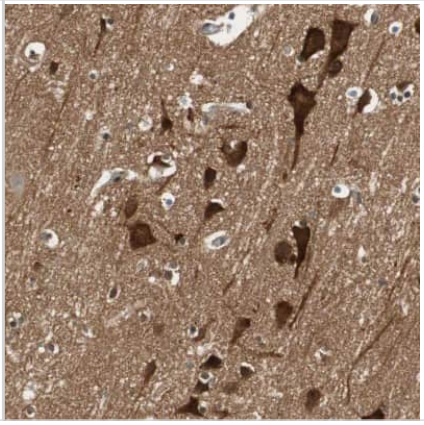
Immunocytochemistry/Immunofluorescence: N-WASP Antibody [NBP1-82512] - Staining of human cell line A-431 shows localization to cytosol. Antibody staining is shown in green.

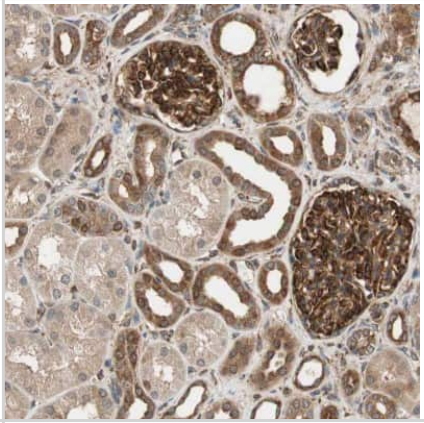
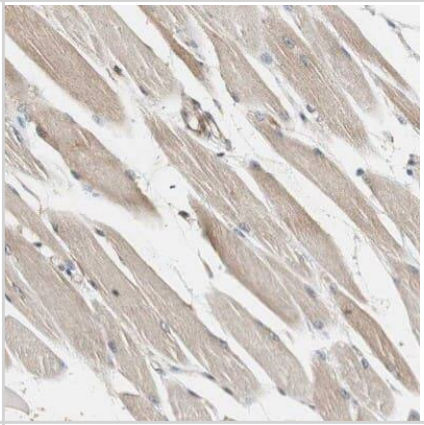
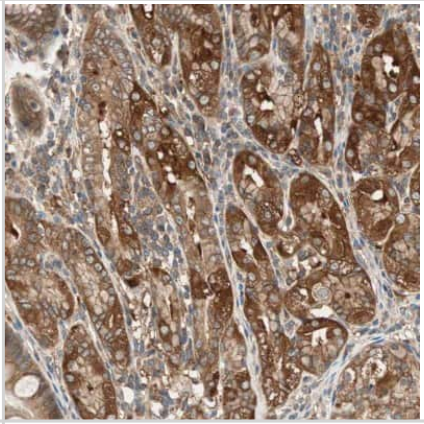
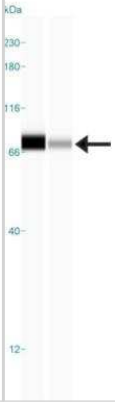


Western Blot: N-WASP Antibody [NBP1-82512] - Analysis in human cell line RT-4.

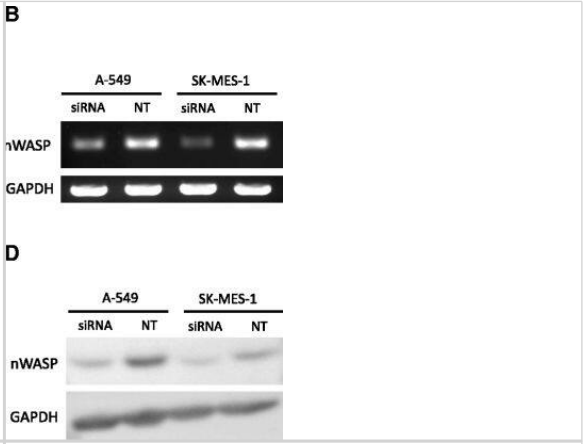


Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human cerebral cortex shows moderate to strong positivity in neuronal cells.

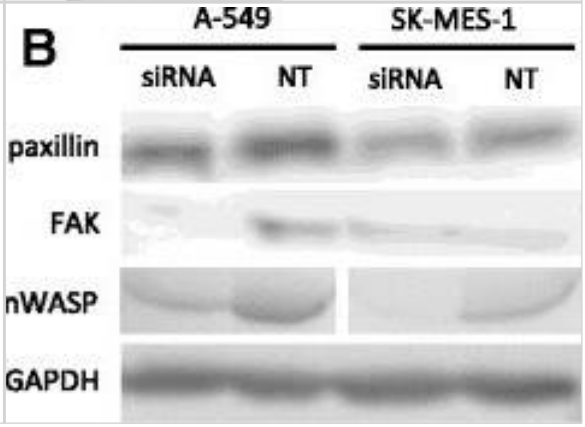


Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human kidney shows moderate to strong positivity in cells in tubules and glomeruli.	
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human skeletal muscle shows weak positivity in myocytes.	
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human stomach shows moderate to strong positivity in glandular cells.	
Simple Western: N-WASP Antibody [NBP1-82512] - Simple Western lane view shows a specific band for N-WASP in 0.2 mg/ml of RT-4 (Left) and U-251MG (Right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	

Western Blot: N-WASP Antibody [NBP1-82512] - Generation of nWASP knockdown cell lines. A-549 & SK-MES-1 cells were treated with nWASP siRNA/non-targeting siRNA (NT) at 0.5 µg/ml & then analysed for nWASP expression after 48 h. a QPCR analysis of nWASP transcript expression demonstrates a significant decrease in expression in siRNA treated cells, n = 4 replicates. b PCR also demonstrates a decrease in nWASP expression. c Quantitative analysis of Western blots (n = 4) shows significant decrease in nWASP protein expression in both A-549 & SK-MES1 cell lines after 48 h siRNA treatment. d Representative image showing knockdown of nWASP at protein level in siRNA treated cells at 48 h Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28351346), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: N-WASP Antibody [NBP1-82512] - nWASP activity affects A-549 & SK-MES-1 cell growth. a, b nWASP inhibition using 10 µM wiskostatin treatment significantly impairs the growth of A-549 & SK-MES-1 cells, respectively. c, d A significant effect on growth is also evident after 3 days in nWASP knockdown A-549 & SK-MES-1 cells, respectively, when compared to non-targeting control treated cells Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/28351346), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang D, Ye Z, Wei W et al. Capping protein regulates endosomal trafficking by controlling F-actin density around endocytic vesicles and recruiting RAB5 effectors eLife 2021-11-19 [PMID: 34796874]

Frugtniet BA, Ruge F, Sanders AJ et al. nWASP Inhibition Increases Wound Healing via TrKb/PLC? Signalling Biomolecules 2023-02-17 [PMID: 36830748] (ICC/IF, Human)

Faris R, McCullough A, Andersen SE et al. The Chlamydia trachomatis secreted effector TmeA hijacks the N-WASP-ARP2/3 actin remodeling axis to facilitate cellular invasion PLoS pathogens 2020-09-01 [PMID: 32946535] (ICC/IF, Human)

Bravo-Santano N, Stolting H, Cooper F et al. Host-directed kinase inhibitors act as novel therapies against intracellular Staphylococcus aureus Sci Rep 2019-03-19 [PMID: 30890742] (WB, Human)

Frugtniet BA, Martin TA, Zhang L, Jiang WG. Neural Wiskott-Aldrich syndrome protein (nWASP) is implicated in human lung cancer invasion. BMC Cancer. 2017-03-28 [PMID: 28351346] (WB, Human)

Schell C, Baumhakl L, Salou S et al. N-WASP Is Required for Stabilization of Podocyte Foot Processes. J Am Soc Nephrol 2013-04-01 [PMID: 23471198] (ICC/IF, Mouse)

Yu X, Zech T, McDonald L et al. N-WASP coordinates the delivery and F-actin-mediated capture of MT1-MMP at invasive pseudopods. J Cell Biol 2012-10-29 [PMID: 23091069]

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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