

# 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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Updated 3/4/2026 v.20.1

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**NBP1-82512**

N-WASP Antibody - BSA Free

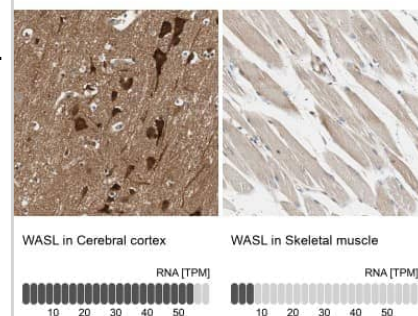
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal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

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

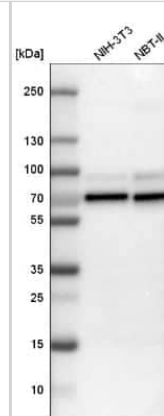
Product Application Details	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
<b>Application Notes</b>	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 77 kDa

**Images**

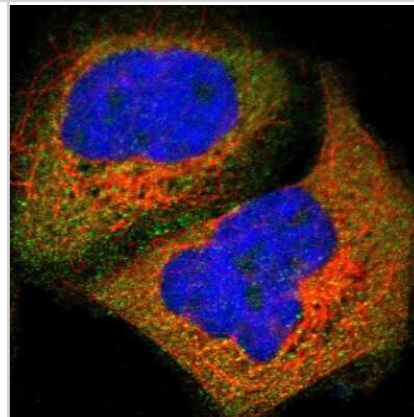
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining in human cerebral cortex and skeletal muscle tissues . Corresponding WASL RNA-seq data are presented for the same tissues.



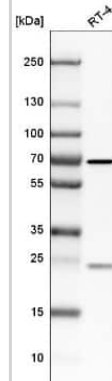
Western Blot: N-WASP Antibody [NBP1-82512] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



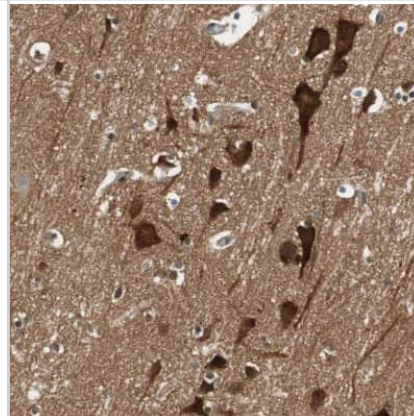
Immunocytochemistry/Immunofluorescence: N-WASP Antibody [NBP1-82512] - Staining of human cell line A-431 shows localization to cytosol. Antibody staining is shown in green.



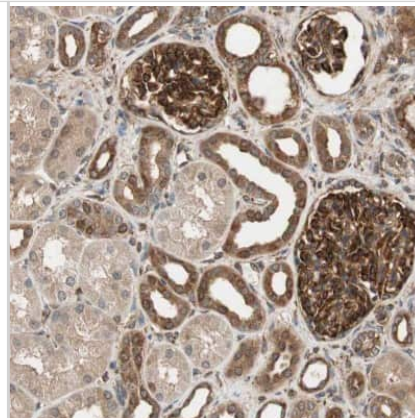
Western Blot: N-WASP Antibody [NBP1-82512] - Analysis in human cell line RT-4.



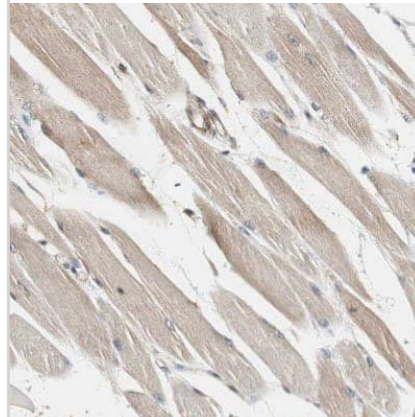
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human cerebral cortex shows moderate to strong positivity in neuronal cells.



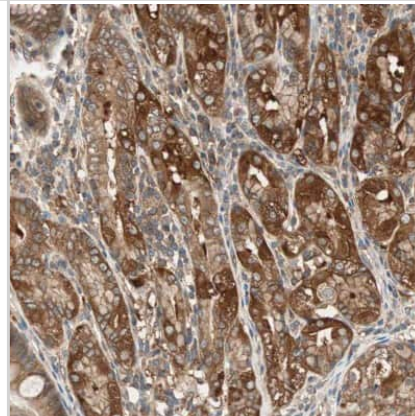
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human kidney shows moderate to strong positivity in cells in tubules and glomeruli.



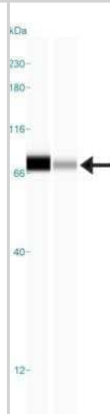
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human skeletal muscle shows weak positivity in myocytes.



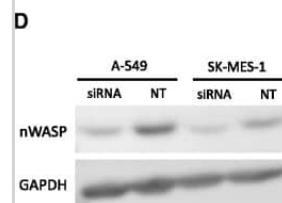
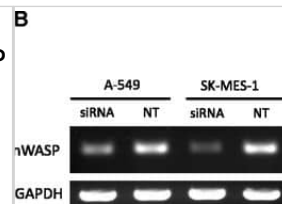
Immunohistochemistry-Paraffin: N-WASP Antibody [NBP1-82512] - Staining of human stomach shows moderate to strong positivity in glandular cells.



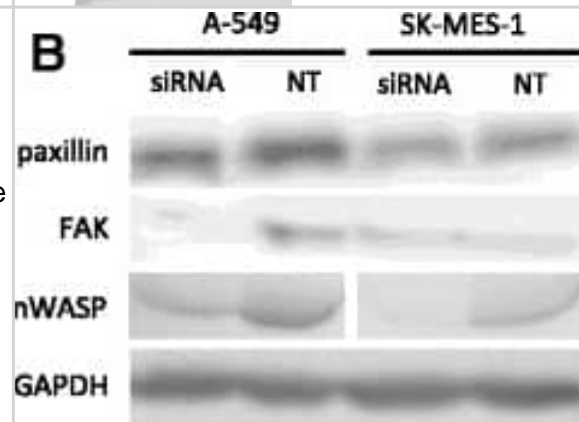
Simple Western: N-WASP Antibody [NBP1-82512] - Simple Western lane view shows a specific band for N-WASP in 0.2 mg/ml of RT-4 (Left) and U-251MG (Right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



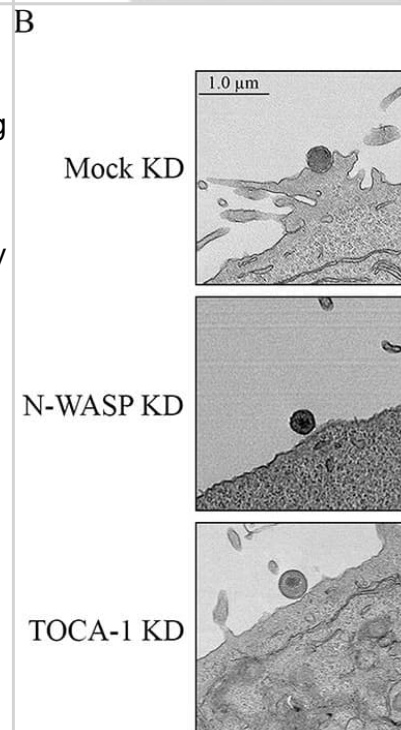
Western Blot: N-WASP Antibody [NBP1-82512] - Generation of nWASP knockdown cell lines. A-549 & SK-MES-1 cells were treated with nWASP siRNA/non-targeting siRNA (NT) at 0.5  $\mu$ g/ml & then analysed for nWASP expression after 48 h. a QPCR analysis of nWASP transcript expression demonstrates a significant 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  $\mu$ M 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.



N-WASP and TOCA-1 play a role in C.t. pedestal-like structure formation. (A) N-WASP and TOCA-1 were knocked down in HeLa cells. Knockdown was verified using Western blotting, probing with anti-GAPDH, anti-N-WASP, and anti-TOCA-1 antibodies and quantified using densitometry, with relative density or adjusted relative density shown under the blots. Relative density was determined compared to mock KD, and relative density was adjusted for the N-WASP and TOCA-1 blots compared to the GAPDH standards. (B) HeLa cells were asynchronously infected with WTL2 at an MOI of 50 for 15 minutes and imaged with transmission electron microscopy; three representative images are shown. (C) Quantification of EBs associated with pedestal-like structures. A total of 100 EBs per experiment were assessed from two separate experiments, in which images were blinded and categorized as associated or not associated with pedestal-like structures. EBs associated with pedestal-like structures were compared to total EBs to determine the percentage associated with pedestal-like structures. Data represent the mean of two biological replicates. Error bars represent SD, \*P < 0.05. Significance was determined using one-way ANOVA followed by Tukey's multiple comparisons test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40231845>), 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 $\gamma$  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, Baumhagl 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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### **Products Related to NBP1-82512**

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NBP1-82512PEP	N-WASP Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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