

# Product Datasheet

## Alix Antibody (3A9) - BSA Free NB100-65678

Unit Size: 0.1 mg

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

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### Publications: 12

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**NB100-65678**

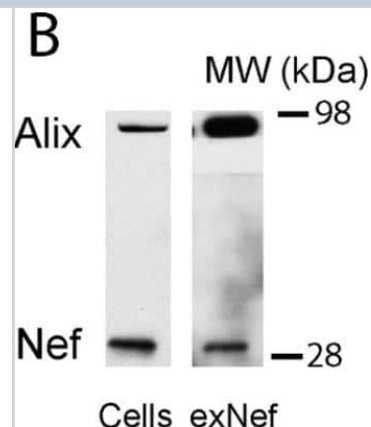
Alix Antibody (3A9) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	3A9
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	10015
<b>Gene Symbol</b>	PDCD6IP
<b>Species</b>	Human
<b>Reactivity Notes</b>	Predicted cross-reactivities: Rat, Xenopus, Mouse, Human  Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Specificity/Sensitivity</b>	NB100-65678 recognizes apoptotic-linked-gene-product 2 (ALG-2) interacting protein X (ALIX), a conserved adaptor protein which is ubiquitously expressed. Alix was originally reported to play a role in apoptosis but has recently been shown to be involved in other cellular mechanisms including endosomal sorting, endocytosis, viral budding and actin cytoskeleton assembly.
<b>Immunogen</b>	Alix-GST fusion protein
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	Use in Flow Cytometry reported in scientific literature (PMID:34298673). For IHC - This product does not require protein digestion pre-treatment of paraffin sections.

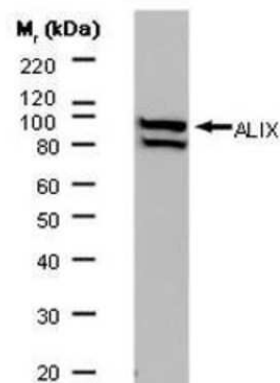


## Images

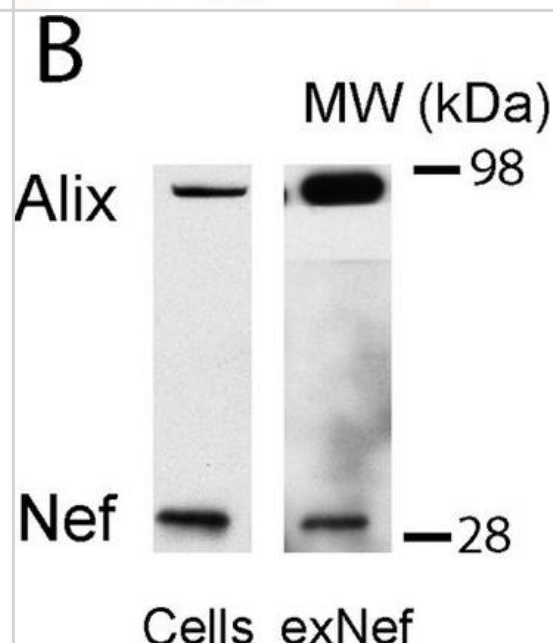
Western Blot: Alix Antibody (3A9) [NB100-65678] - B. Western blot for the exosomal marker Alix and Nef in cells and exosomes (exNef). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31344124>) licensed under a CC-BY license.



Western Blot: Alix Antibody (3A9) [NB100-65678] - Western blot analysis of HeLa whole cell lysate probed with MOUSE ANTI ALIX F(ab')<sub>2</sub> Rabbit anti Mouse IgG:HRP (STAR13B)



Western Blot: Alix Antibody (3A9) [NB100-65678] - Nef-containing exosomes deliver Nef to macrophages. A—Size distribution of the extracellular vesicles secreted by HEK293 cells determined by EM; Inset—EM micrograph of the vesicles; bar—200 nm. B—Western blot for the exosomal marker Alix & Nef in cells & exosomes (exNef); C—Western blot for the indicated amounts of rNef & in a typical preparation of exNef (10 µg of exosomal protein); D, E—Time-course of exosome uptake quantitated by confocal microscopy; F—Time-course of exosome uptake quantitated by fluorimetry; percentage of added exosomes that was taken up is shown; G—Cells were incubated with exosomes for 48 h, excess exosomes was washed out & cells incubated for the indicated periods of time in exosome-free medium; retained fluorescence of the exosome stain PKH67 was assessed using confocal microscopy; H—Visualisation of Nef-GFP inside the cells after exposure to exNef-GFP (5 µg/ml of exosomal protein) after staining with anti-GFP antibody. Scale bars—10 µm. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31344124>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Han, G;Kim, H;Jang, H;Kim, ES;Kim, SH;Yang, Y; Oral TNF- $\alpha$  siRNA delivery via milk-derived exosomes for effective treatment of inflammatory bowel disease *Bioactive materials* 2024-04-01 [PMID: 38223538]

Singh R, Santos M, Herndon C et al. Detection by super-resolution microscopy of viral proteins inside bloodborne extracellular vesicles *Extracellular Vesicles and Circulating Nucleic Acids* 2023-11-08

Eslami-S Z, Cortés-Hernández LE, Sinoquet L et al. Circulating tumour cells and PD-L1-positive small extracellular vesicles: the liquid biopsy combination for prognostic information in patients with metastatic non-small cell lung cancer *British journal of cancer* 2023-11-16 [PMID: 37973956]

Han G, Cho H, Kim H et al. Bovine colostrum derived-exosomes prevent dextran sulfate sodium-induced intestinal colitis via suppression of inflammation and oxidative stress *Biomaterials science* 2022-04-12 [PMID: 35315847]

Kim H, Jang Y, Kim E et al. Potential of Colostrum-Derived Exosomes for Promoting Hair Regeneration Through the Transition From Telogen to Anagen Phase *Frontiers in Cell and Developmental Biology* 2022-03-10 [PMID: 35359449] (WB, Bovine)

Kim H, Kim DE, Han G et al. Harnessing the Natural Healing Power of Colostrum: Bovine Milk-Derived Extracellular Vesicles from Colostrum Facilitating the Transition from Inflammation to Tissue Regeneration for Accelerating Cutaneous Wound Healing *Advanced healthcare materials* 2021-12-05 [PMID: 34865307] (WB, Mouse)

Yin GN, Shin TY, Ock J et al. Pericyte derived extracellular vesicles mimetic nanovesicles improves peripheral nerve regeneration in mouse models of sciatic nerve transection *International journal of molecular medicine* 2022-02-01 [PMID: 34935051] (WB, Mouse)

Sadri M, Hirose N, Le J et al. Tumor necrosis factor receptor-1 is selectively sequestered into Schwann cell extracellular vesicles where it functions as a TNF  $\alpha$  decoy *Glia* 2021-09-24 [PMID: 34559433]

Rabe Dc, Walker Nd, Rustandy Fd Et Al. Tumor Extracellular Vesicles Regulate Macrophage-Driven Metastasis through CCL5 *Cancers* 2021-07-10 [PMID: 34298673] (FLOW)

Mukhamedova N, Hoang A, Dragoljevic D et al. Exosomes containing HIV protein Nef reorganize lipid rafts potentiating inflammatory response in bystander cells *PLoS Pathog.* 2019-07-01 [PMID: 31344124] (WB, Mouse, Human)

Mariscal J, Fernandez-Puente P, Calamia V et al. Proteomic characterization of epithelial-like extracellular vesicles in advanced endometrial cancer. *J. Proteome Res.* 2018-12-26 [PMID: 30585730] (WB, Human)

Haga H, Yan IK, Takahashi K et al. Extracellular Vesicles from Bone Marrow-Derived Mesenchymal Stem Cells Improve Survival from Lethal Hepatic Failure in Mice. *Stem Cells Transl Med.* 2017-02-18 [PMID: 28213967] (Mouse)





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### **Products Related to NB100-65678**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-65678UV	Alix Antibody (3A9) [DyLight 350]

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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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