

Product Datasheet

ARF1 Antibody (1D9) NB300-505-0.025 ml

Unit Size: 0.025 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB300-505-0.025 ml

ARF1 Antibody (1D9)

Product Information	
Unit Size	0.025 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D9
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Product Description	
Host	Mouse
Gene ID	375
Gene Symbol	ARF1
Species	Human, Mouse, Rat, Bovine, Canine
Reactivity Notes	Bovine reactivity reported in scientific literature (PMID: 10747089). 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.
Specificity/Sensitivity	Detects ADP-ribosylation factor1 (Arf 1), Arf 3, Arf 5 and Arf 6 and at about a ten-fold reduction with Arf 4.
Immunogen	Recombinant human ARF1.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 1:20, ELISA 1:100 - 1:2000, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100
Application Notes	ELISA usage was reported in scientific literature. WB: Detects an approx. 21 kDa protein representing Arf in rat pancreas extract. IF: Staining of Arf in rat pancreas results in staining of the cytoplasmic face of the trans-Golgi membranes. This antibody cannot be used to neutralize Arf in solution.



Images

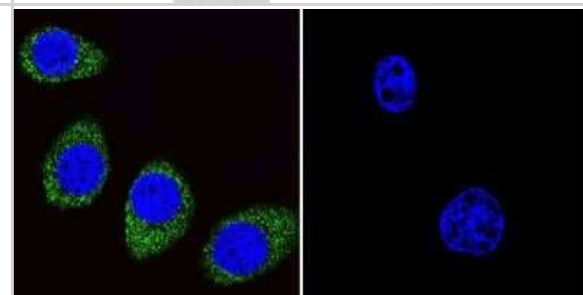
Western Blot: ARF1 Antibody (1D9) [NB300-505] - Analysis of canine heart extract.

Fig. 1

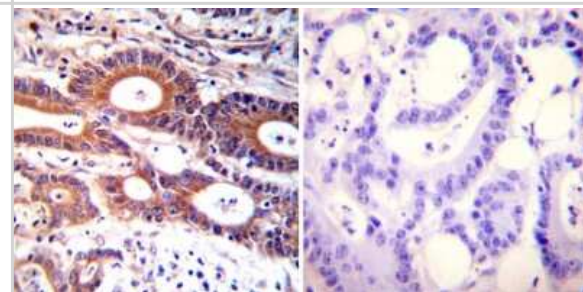
~20 kDa
~15 kDa



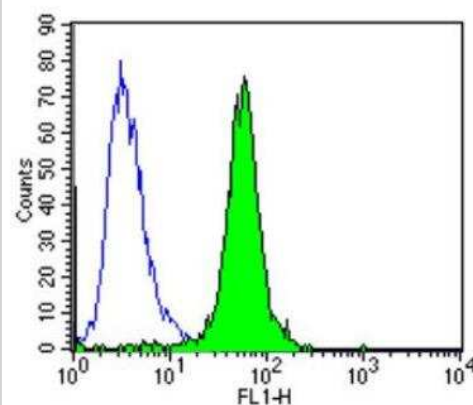
Immunocytochemistry/Immunofluorescence: ARF1 Antibody (1D9) [NB300-505] - Analysis of ADP-Ribosylation Factor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



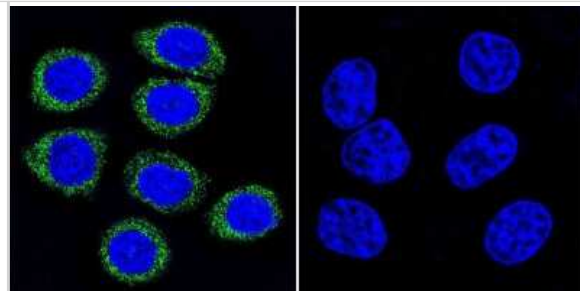
Immunohistochemistry-Paraffin: ARF1 Antibody (1D9) [NB300-505] - Both normal and cancer biopsies of deparaffinized Human colon carcinoma tissues.



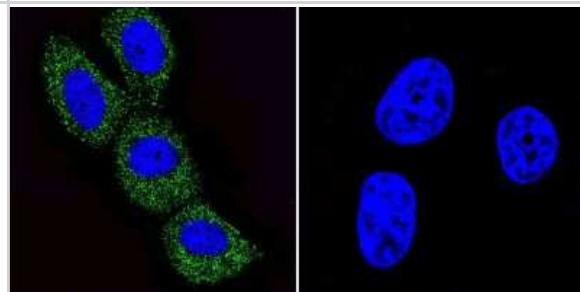
Flow Cytometry: ARF1 Antibody (1D9) [NB300-505] - Analysis of MCF-7 cells compared to an isotype control (blue).



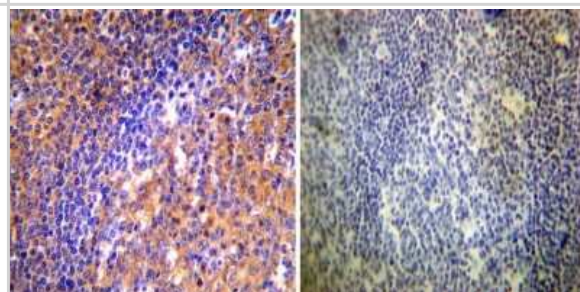
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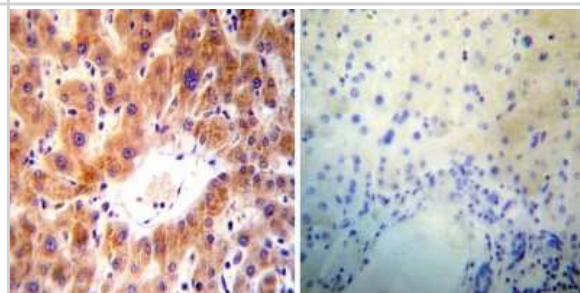
Immunocytochemistry/Immunofluorescence: ARF1 Antibody (1D9) [NB300-505] - Analysis of ADP-Ribosylation Factor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



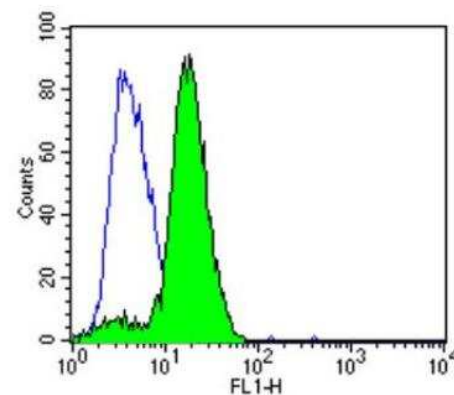
Immunohistochemistry-Paraffin: ARF1 Antibody (1D9) [NB300-505] - Both normal and cancer biopsies of deparaffinized Human tonsil tissues.



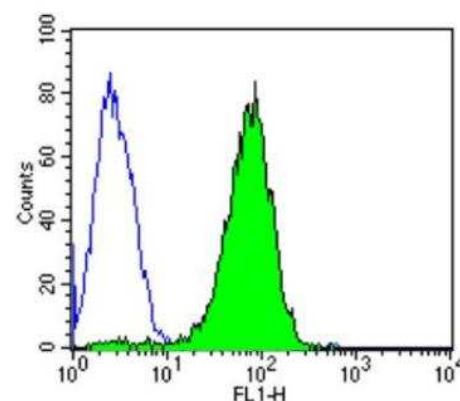
Immunohistochemistry-Paraffin: ARF1 Antibody (1D9) [NB300-505] - Both normal and cancer biopsies of deparaffinized Human liver tissues.



Flow Cytometry: ARF1 Antibody (1D9) [NB300-505] - Analysis of 3T3 cells compared to an isotype control (blue).



Flow Cytometry: ARF1 Antibody (1D9) [NB300-505] - Analysis of Hela cells compared to an isotype control (blue).



Publications

- Jia J, Tang S, Yue X et al. An A-Kinase Anchoring Protein (ACBD3) Coordinates Traffic-Induced PKA Activation At The Golgi The Journal of biological chemistry 2023-04-10 [PMID: 37044218] (WB, Human)
- Nawrotek A, Benabdi S et al. PH-domain-binding inhibitors of nucleotide exchange factor BRAG2 disrupt Arf GTPase signaling. Nat Chem Biol 2019-01-04 [PMID: 30742123] (ICC/IF, Human)
- Wei M, Zhu Z, Wu J et al. DRAM1 deficiency affects the organization and function of the Golgi apparatus Cell. Signal. 2019-07-26 [PMID: 31356858] (WB, Human)
- Ramirez-Peinado S, Ignashkova TI, van Raam BJ et al. TRAPPC13 modulates autophagy and the response to Golgi stress. J. Cell. Sci. 2017-05-23 [PMID: 28536105]
- Reiling JH, Olive AJ, Sanyal S et al. A CREB3-ARF4 signalling pathway mediates the response to Golgi stress and susceptibility to pathogens. Nat Cell Biol. 2013-12-01 [PMID: 24185178] (WB, Human)
- Wang J, Sun HQ, Macia E, Kirchhausen T, Watson H, Bonifacino JS, Yin HL. PI4P promotes the recruitment of the GGA adaptor proteins to the trans-Golgi network and regulates their recognition of the ubiquitin sorting signal. Mol Biol Cell;18(7):2646-55. 2007-07-01 [PMID: 17494868] (ICC/IF)
- Belov GA, Fogg MH, Ehrenfeld E. Poliovirus proteins induce membrane association of GTPase ADP-ribosylation factor. J Virol;79(11):7207-16. 2005-06-01 [PMID: 15890959] (WB)
- Chan D, Strang M, Judson B, Brown WJ. Inhibition of membrane tubule formation and trafficking by isotetrindrine, an antagonist of G-protein-regulated phospholipase A2 enzymes. Mol Biol Cell. 15(4):1871-80. 2004-04-01 [PMID: 14767064] (ICC/IF)
- Lu L, Horstmann H, Ng C, Hong W. Regulation of Golgi structure and function by ARF-like protein 1 (Arl1). J Cell Sci;114(Pt 24):4543-55. 2001-12-01 [PMID: 11792819] (ICC/IF)
- Cavenagh MM, Whitney JA, Carroll K, Zhang C, Boman AL, Rosenwald AG, Mellman I, Kahn RA. Intracellular distribution of Arf proteins in mammalian cells. Arf6 is uniquely localized to the plasma membrane. J Biol Chem;271(36):21767-74. 1996-09-06 [PMID: 8702973] (ELISA)
- Shen X, Xu KF, Fan Q, Pacheco-Rodriguez G, Moss J, Vaughan M. Association of brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2) with recycling endosomes during transferrin uptake. Proc Natl Acad Sci U S A;103(8):2635-40. 2006-02-21 [PMID: 16477018] (ELISA)
- Spitzenberger F, Pietropaolo S, Verkade P, Habermann B, Lacas-Gervais S, Mziaut H, Pietropaolo M, Solimena M. Islet cell autoantigen of 69 kDa is an arfaptin-related protein associated with the Golgi complex of insulinoma INS-1 cells. J Biol Chem;278(28):26166-73. 2003-07-11 [PMID: 12682071] (IP)
- More publications at <http://www.novusbio.com/NB300-505>





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