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RAB27A Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant RAB27A.
Catalog # AT3518a

Specification

RAB27A Antibody (monoclonal) (M02) - Product Information

Application	**WB, IHC, E**
Primary Accession	P51159
Other Accession	NM_004580
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**24868**

RAB27A Antibody (monoclonal) (M02) - Additional Information

Gene ID 5873

Other Names
Ras-related protein Rab-27A, Rab-27, GTP-binding protein Ram, RAB27A, RAB27

Target/Specificity
RAB27A (NP_004571, 122 a.a. ~ 221 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
RAB27A Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

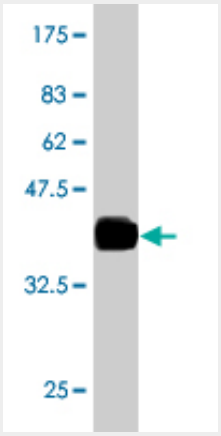
RAB27A Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

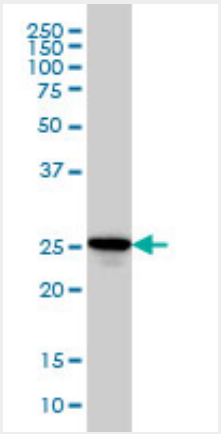
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

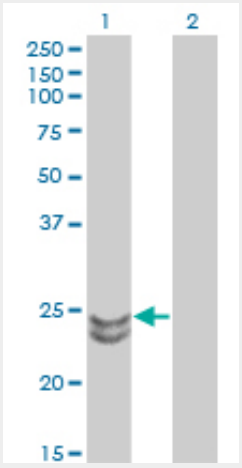
RAB27A Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



RAB27A monoclonal antibody (M02), clone 1G7 Western Blot analysis of RAB27A expression in HL-60 ((Cat # AT3518a)



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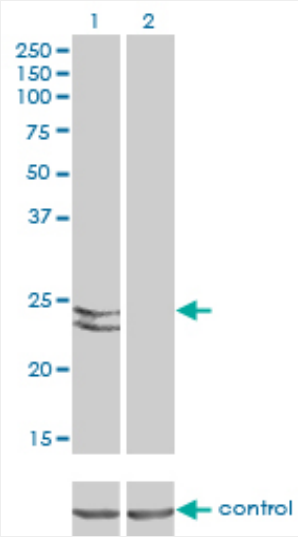
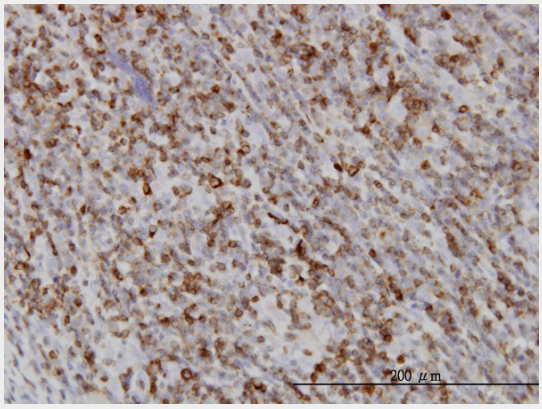
Western Blot analysis of RAB27A expression in transfected 293T cell line by RAB27A monoclonal antibody (M02), clone 1G7.

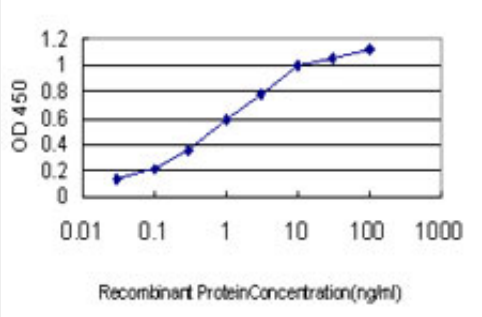
Lane 1: RAB27A transfected lysate(24.9 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of RAB27A over-expressed 293 cell line, cotransfected with RAB27A Validated Chimera RNAi ((Cat # AT3518a)



Immunoperoxidase of monoclonal antibody to RAB27A on formalin-fixed paraffin-embedded human lymphoma. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged RAB27A is approximately 0.03ng/ml as a capture antibody.

RAB27A Antibody (monoclonal) (M02) - Background

The protein encoded by this gene belongs to the small GTPase superfamily, Rab family. The protein is membrane-bound and may be involved in protein transport and small GTPase mediated signal transduction. Mutations in this gene are associated with Griscelli syndrome type 2. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified.

RAB27A Antibody (monoclonal) (M02) - References

1.Activated Cdc42-Bound IQGAP1 Determines the Cellular Endocytic Site.Kimura T, Yamaoka M, Taniguchi S, Okamoto M, Takei M, Ando T, Iwamatsu A, Watanabe T, Kaibuchi K, Ishizaki T, Niki IMol Cell Biol. 2013 Dec;33(24):4834-43. doi: 10.1128/MCB.00895-13. Epub 2013 Oct 7.2.Melanoma exosomes educate bone marrow progenitor cells toward a pro-metastatic phenotype through MET.Peinado H, Aleckovic M, Lavotshkin S, Matei I, Costa-Silva B, Moreno-Bueno G, Hergueta-Redondo M, Williams C, Garcia-Santos G, Ghajar CM, Nitadori-Hoshino A, Hoffman C, Badal K, Garcia BA, Callahan MK, Yuan J, Martins VR, Skog J, Kaplan RN, Brady MS, Wolchok JD, Chapman PB, Kang Y, Bromberg J, Lyden D.Nat Med. 2012 May 27. doi: 10.1038/nm.2753.3.Stepwise Maturation of Lytic Granules during Differentiation and Activation of Human CD8+ T Lymphocytes.Sanchez-Ruiz Y, Valitutti S, Dupre L.PLoS One. 2011;6(11):e27057. Epub 2011 Nov 4.4.Synaptotagmin-like protein 1 interacts with the GTPase-activating protein Rap1GAP2 and regulates dense granule secretion in platelets.Neumuller O, Hoffmeister M, Babica J, Prelle C, Gegenbauer K, Smolenski AP.Blood. 2009 Aug 13;114(7):1396-404. Epub 2009 Jun 15.5.The GDP-dependent Rab27a effector coronin 3 controls endocytosis of secretory membrane in insulin-secreting cell lines.Kimura T, Kaneko Y, Yamada S, Ishihara H, Senda T, Iwamatsu A, Niki I.J Cell Sci. 2008 Sep 15;121(Pt 18):3092-8.