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RHOF Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1955a

Product Information

Application	WB, FC, E
Primary Accession	Q9HBH0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D4B6
Isotype	IgG2a
Calculated MW	23625
Description	RHOF is a protein-coding gene. Diseases associated with RHOF include mycosis fungoides, and lung cancer, and among its related super-pathways are Signaling by Rho GTPases and Signaling by GPCR. GO annotations related to this gene include GTP binding and GTPase activity. An important paralog of this gene is RHOB.
Immunogen	Purified recombinant fragment of human RHOF (AA: 1-84) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	54509
Other Names	Rho-related GTP-binding protein RhoF, Rho family GTPase Rif, Rho in filopodia, RHOF, ARHF, RIF
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RHOF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RHOF
Synonyms	ARHF, RIF

Function	Plasma membrane-associated small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. Causes the formation of thin, actin-rich surface projections called filopodia. Functions cooperatively with CDC42 and Rac to generate additional structures, increasing the diversity of actin-based morphology.
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytoskeleton

Background

Soluble guanylate cyclases are heterodimeric proteins that catalyze the conversion of GTP to 3',5'-cyclic GMP and pyrophosphate. The protein encoded by this gene is an alpha subunit of this complex and it interacts with a beta subunit to form the guanylate cyclase enzyme, which is activated by nitric oxide. Several transcript variants encoding a few different isoforms have been found for this gene. ; ;

References

1. Curr Biol. 2000 Nov 2;10(21):1387-90.2. Biochem Soc Trans. 2012 Feb;40(1):268-72.

Images

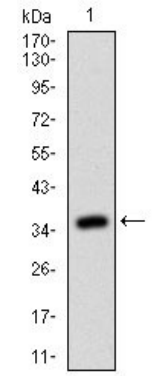


Figure 1: Western blot analysis using RHOF mAb against human RHOF (AA: 1-84) recombinant protein. (Expected MW is 34.9 kDa)

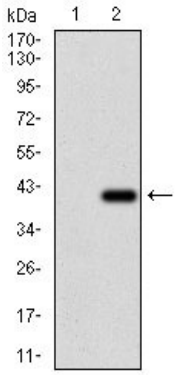


Figure 2: Western blot analysis using RHOF mAb against HEK293 (1) and RHOF (AA: 1-84)-hIgGFc transfected HEK293 (2) cell lysate.

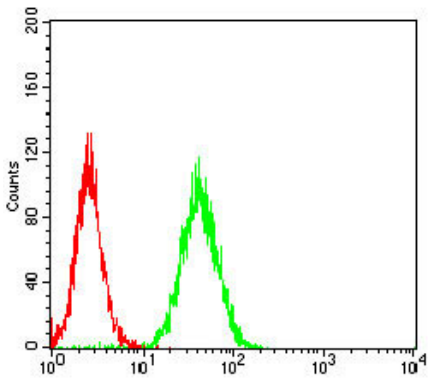


Figure 3: Flow cytometric analysis of Hela cells using RHOF mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.