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RASA3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RASA3.
Catalog # AT3575a

Product Information

Application	WB, E
Primary Accession	Q14644
Other Accession	BC047242
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	1F11
Calculated MW	95699

Additional Information

Gene ID	22821
Other Names	Ras GTPase-activating protein 3, GAP1(IP4BP), Ins P4-binding protein, RASA3
Target/Specificity	RASA3 (AAH47242, 725 a.a. ~ 834 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
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	RASA3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

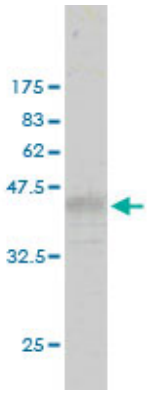
Background

The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. This family member is an inositol 1,3,4,5-tetrakisphosphate-binding protein, like the closely related RAS p21 protein activator 2. The two family members have distinct pleckstrin-homology domains, with this particular member having a domain consistent with its localization to the plasma membrane.

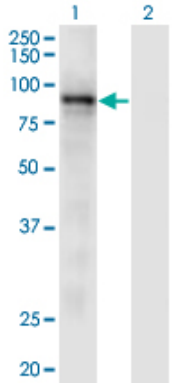
References

The ability of GAP1IP4BP to function as a Rap1 GTPase-activating protein (GAP) requires its Ras GAP-related domain and an arginine finger rather than an asparagine thumb. Kupzig S, et al. Mol Cell Biol, 2009 Jul. PMID 19433443.Immunoaffinity profiling of tyrosine phosphorylation in cancer cells. Rush J, et al. Nat Biotechnol, 2005 Jan. PMID 15592455.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Analyzing the role of the putative inositol 1,3,4,5-tetrakisphosphate receptor GAP1IP4BP in intracellular Ca2+ homeostasis. Walker SA, et al. J Biol Chem, 2002 Dec 13. PMID 12356770.

Images

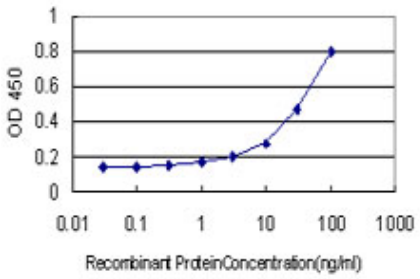


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



Western Blot analysis of RASA3 expression in transfected 293T cell line by RASA3 monoclonal antibody (M01), clone 1F11.

Lane 1: RASA3 transfected lysate (Predicted MW: 95.7 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged RASA3 is approximately 0.3ng/ml as a capture antibody.

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