

RAPGEF2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RAPGEF2.

Catalog # AT3566a

Product Information

Application	WB, E
Primary Accession	Q9Y4G8
Other Accession	XM_376350
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1E9
Calculated MW	167417

Additional Information

Gene ID	9693
Other Names	Rap guanine nucleotide exchange factor 2, Cyclic nucleotide ras GEF, CNrasGEF, Neural RAP guanine nucleotide exchange protein, nRap GEP, PDZ domain-containing guanine nucleotide exchange factor 1, PDZ-GEF1, RA-GEF-1, Ras/Rap1-associating GEF-1, RAPGEF2, KIAA0313, NRAPGEP, PDZGEF1
Target/Specificity	RAPGEF2 (XP_376350, 1398 a.a. ~ 1487 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	RAPGEF2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

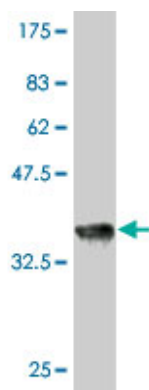
Background

Members of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF2, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM]

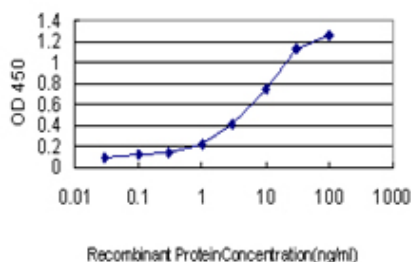
References

1. Rap2A links intestinal cell polarity to brush border formation. Gloerich M, Ten Klooster JP, Vliem MJ, Koorman T, Zwartkruis FJ, Clevers H, Bos JL. *Nat Cell Biol.* 2012 Aug;14(8):793-801. doi: 10.1038/ncb2537. Epub 2012 Jul 15. 2. Epac1 and PDZ-GEF cooperate in Rap1 mediated endothelial junction control. Pannekoek WJ, van Dijk JJ, Chan OY, Huveneers S, Linnemann JR, Spanjaard E, Brouwer PM, van der Meer AJ, Zwartkruis FJ, Rehmann H, de Rooij J, Bos JL. *Cell Signal.* 2011 Aug 4. [Epub ahead of print] 3. PKC θ selectively controls the adhesion-stimulating molecule Rap1. Letschka T, Kollmann V, Pfeifhofer-Obermair C, Lutz-Nicoladoni C, Obermair GJ, Fresser F, Leitges M, Hermann-Kleiter N, Kaminski S, Baier G. *Blood.* 2008 Dec 1;112(12):4617-27. Epub 2008 Sep 16.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.64 kDa) .



Detection limit for recombinant GST tagged RAPGEF2 is approximately 0.1 ng/ml as a capture antibody.

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