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RAPGEF2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RAPGEF2.
Catalog # AT3566a

Specification

RAPGEF2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q9Y4G8
Other Accession	XM_376350
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**167417**

RAPGEF2 Antibody (monoclonal) (M01) - 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.

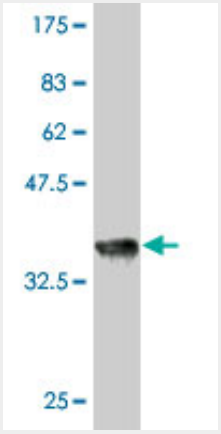
Precautions
RAPGEF2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

RAPGEF2 Antibody (monoclonal) (M01) - Protocols

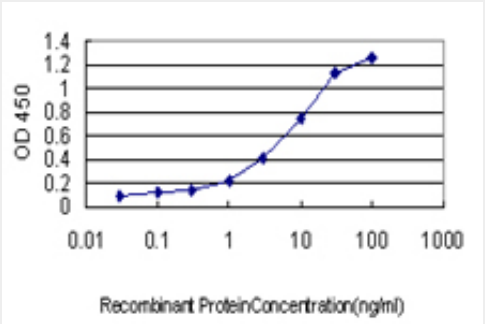
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAPGEF2 Antibody (monoclonal) (M01) - Images



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



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

RAPGEF2 Antibody (monoclonal) (M01) - 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]

RAPGEF2 Antibody (monoclonal) (M01) - 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{theta} 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.