

RAPGEF5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17073b

Product Information

Application	WB, E
Primary Accession	Q92565
Other Accession	NP_036426.3
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36938
Calculated MW	67733
Antigen Region	529-555

Additional Information

Gene ID	9771
Other Names	Rap guanine nucleotide exchange factor 5, Guanine nucleotide exchange factor for Rap1, M-Ras-regulated Rap GEF, MR-GEF, Related to Epac, Repac, RAPGEF5, GFR, KIAA0277, MRGEF
Target/Specificity	This RAPGEF5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 529-555 amino acids from the C-terminal region of human RAPGEF5.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RAPGEF5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAPGEF5
Synonyms	GFR, KIAA0277, MRGEF

Function	Guanine nucleotide exchange factor (GEF) for RAP1A, RAP2A and MRAS/M-Ras-GTP. Its association with MRAS inhibits Rap1 activation.
Cellular Location	Nucleus.
Tissue Location	Widely expressed with highest levels in brain.

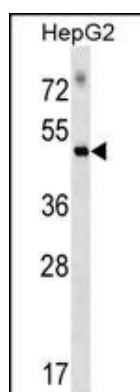
Background

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 RAPGEF5, 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]).

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Okada, Y., et al. Hum. Mol. Genet. 19(11):2303-2312(2010)
Hwang, S.J., et al. BMC Med. Genet. 8 SUPPL 1, S10 (2007) :
Rebhun, J.F., et al. J. Biol. Chem. 275(45):34901-34908(2000)
de Rooij, J., et al. J. Biol. Chem. 275(27):20829-20836(2000)

Images



RAPGEF5 Antibody (C-term) (Cat. #AP17073b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the RAPGEF5 antibody detected the RAPGEF5 protein (arrow).

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