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RASAL1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12460c

Product Information

Application	WB, E
Primary Accession	O95294
Other Accession	NP_004649.2, NP_001180450.1
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32273
Calculated MW	90016
Antigen Region	309-337

Additional Information

Gene ID	8437
Other Names	RasGAP-activating-like protein 1, RASAL1, RASAL
Target/Specificity	This RASAL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-337 amino acids from the Central region of human RASAL1.
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	RASAL1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RASAL1 (HGNC:9873)
Function	Probable inhibitory regulator of the Ras-cyclic AMP pathway (PubMed:9751798). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Tissue Location	Highly expressed in thyroid and adrenal medulla, lower expression in brain, spinal cord and trachea (PubMed:9751798) Expressed in melanocytes (PubMed:23999003)

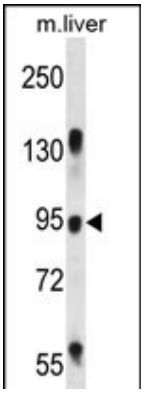
Background

The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. These proteins stimulate 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 particular family member contains domains which are characteristic of the GAP1 subfamily of RasGAP proteins but, in contrast to the other GAP1 family members, this protein is strongly and selectively expressed in endocrine tissues. Alternatively spliced transcript variants that encode different isoforms have been described

References

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Jin, H., et al. Proc. Natl. Acad. Sci. U.S.A. 104(30):12353-12358(2007)
Liu, Q., et al. J. Cell Biol. 170(2):183-190(2005)
Schmitt, J.M., et al. J. Biol. Chem. 277(45):43024-43032(2002)
Allen, M., et al. Gene 218 (1-2), 17-25 (1998) :

Images



RASAL1 Antibody (Center) (Cat. #AP12460c) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the RASAL1 antibody detected the RASAL1 protein (arrow).

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