

RASAL1 Rabbit pAb

Catalog # AP98225

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95294
Other Accession	O95294
Reactivity	Rat, Human
Predicted	Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90016
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RASAL1
Epitope Specificity	451-550/805
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 Btk-type zinc finger.Contains 2 C2 domains.Contains 1 PH domain.Contains 1 Ras-GAP domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ras GTPase activating-like protein (RASAL) or RASAL1 is a member of the GAP1 family, and a Ca ²⁺ sensor responding in-phase to repetitive Ca ²⁺ signals by associating with the plasma membrane and deactivating Ras. It contains a conserved domain structure comprising N-terminal tandem C2 domains, a highly conserved central RasGAP domain, and a C-terminal pleckstrin-homology domain that is associated with a Bruton's tyrosine kinase motif. RASAL, like Ca ²⁺ -promoted Ras inactivator (CAPRI, or RASAL4), is a cytosolic protein that undergoes a rapid translocation to the plasma membrane in response to receptor-mediated elevation in the concentration of intracellular free Ca ²⁺ , a translocation that activates its ability to function as a RasGAP. However, unlike RASAL4, RASAL undergoes an oscillatory translocation to the plasma membrane that occurs in synchrony with repetitive Ca ²⁺ spikes.

Additional Information

Gene ID	8437
Other Names	RASAL; MRASAL; RASL1_HUMAN; RASAL1; RAS protein activator like 1; Ras GTPase-activating-like protein; RASL1_MOUSE; RAS protein activator like 1 (GAP1 like)
Dilution	IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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