



Rabbit Anti-RASAL1 antibody

SL6088R

Product Name:	RASAL1
Chinese Name:	RAS蛋白样激活剂1抗体
Alias:	GAP1 like protein; MRASAL; RAS GTPase activating protein like; RAS protein activator like 1 (GAP1 like); RAS protein activator like 1; RASAL; Rasal1; rasGAP activating like protein 1; RasGAP-activating-like protein 1; RASGAP1 LIKE; RASL1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RASAL1:451-550/805
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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 Ca²⁺-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 Ca²⁺, 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 Ca²⁺ spikes.

Function:

Probable inhibitory regulator of the Ras-cyclic AMP pathway.

Tissue Specificity:

Highly expressed in thyroid and adrenal medulla, lower expression in brain, spinal cord and trachea.

Similarity:

Contains 1 Btk-type zinc finger.
Contains 2 C2 domains.
Contains 1 PH domain.
Contains 1 Ras-GAP domain.

SWISS:

O95294

Gene ID:

8437

Database links:

[Entrez Gene: 8437](#)Human

[Entrez Gene: 19415](#)Mouse

[Entrez Gene: 360814](#)Rat

[Omim: 604118](#)Human

[SwissProt: O95294](#)Human

[SwissProt: Q9Z268](#)Mouse

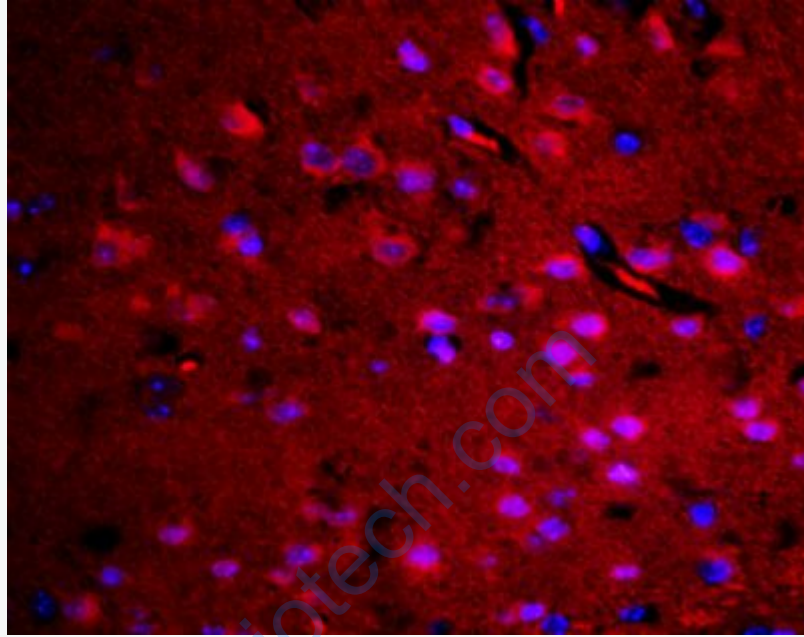
[Unigene: 528693](#)Human

[Unigene: 41209](#)Mouse

[Unigene: 63791](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-RASAL1 Polyclonal Antibody, Unconjugated(SL6088R) 1:200,
overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3
conjugated(SL6088R)used at 1:200 dilution for 40 minutes at 37°C.
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei