



## Rabbit Anti-RRAGA + RRAGB antibody

SL10731R

<b>Product Name:</b>	RRAGA + RRAGB
<b>Chinese Name:</b>	RAS相关GTPBinding proteinA抗体
<b>Alias:</b>	FIP1; RAGA; FIP-1; RRAGB; Adenovirus E3 14.7 kDa-interacting protein 1; Rag A; RAg B; RagA; RAGB; Ras related GTP binding protein A; RRAGA_HUMAN; Ras-related GTP binding A; GTP-binding protein ragB; Rag B; RagB; Ras-related GTP-binding protein B; RRAGB; RRAGB HUMAN..
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Horse,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	37kDa
<b>Cellular localization:</b>	The nucleuscytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human RRAGA and RRAGB:231-323/313
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Involved in the RCC1/Ran-GTPase pathway. RRAGA may play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby

affecting cell death. Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity. ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain.

**Function:**

Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity. Required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death.

**Subunit:**

Binds GTP. Can occur as a homodimer or as a heterodimer with RRAGC or RRAGD in a sequence-independent manner; heterodimerization stabilizes PPAG proteins. In complex with RRAGC, but not with RRAGB, interacts with RPTOR. The GTP-bound form of RRAGA interacts with NOL8. Interacts with adenovirus E3 14.7 kDa protein.

**Subcellular Location:**

Cytoplasm. Nucleus. Lysosome. Note=Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state. Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane.

**Tissue Specificity:**

Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain.

**Similarity:**

Belongs to the GTR/RAG GTP-binding protein family.

**SWISS:**

Q7L523

**Gene ID:**

10670

**Database links:**

[Entrez Gene: 10670](#)Human

[Entrez Gene: 68441](#)Mouse

[Entrez Gene: 117044](#)Rat

[Omim: 612194](#)Human

[SwissProt: Q7L523](#)Human

[SwissProt: Q80X95](#)Mouse

[SwissProt: Q63486](#)Rat

[Unigene: 702275](#)Human

[Unigene: 31178](#)Mouse

[Unigene: 2816](#)Rat

**Important Note:**

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

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