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Rabbit Anti-Ras and Rab interactor 2 antibody

SL4332R

Product Name:	Ras and Rab interactor 2
Chinese Name:	RAS相关/干扰蛋白2抗体
Alias:	RIN2; MACS; RAB5 interacting protein 2; Ras and Rab interactor 2; RAS association (RalGDS/AF-6) domain containing protein JC265; Ras association domain family 4; Ras inhibitor JC265; Ras interaction/interference protein 2; RASSF4; RIN 2; RIN2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Rabbit,Sheep,
Applications:	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.
Molecular weight:	100kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Ras and Rab interactor 2:201-300/895
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
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:	The RAB5 protein is a small GTPase involved in membrane trafficking in the early endocytic pathway. The protein encoded by this gene binds the GTP-bound form of the RAB5 protein preferentially over the GDP-bound form, and functions as a guanine

nucleotide exchange factor for RAB5. The encoded protein is found primarily as a tetramer in the cytoplasm and does not bind other members of the RAB family. Mutations in this gene cause macrocephaly alopecia cutis laxa and scoliosis (MACS) syndrome, an elastic tissue disorder, as well as the related connective tissue disorder, RIN2 syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011]

Function:
Ras effector protein. May function as an upstream activator and/or downstream effector for RAB5B in endocytic pathway. May function as a guanine nucleotide exchange (GEF) of RAB5B, required for activating the RAB5 proteins by exchanging bound GDP for free GTP.

Subunit:
Homotetramer; probably composed of anti-parallel linkage of two parallel dimers. Interacts with Ras. Interacts with RAB5B,with a much higher affinity for GTP-bound activated RAB5B. Does not interact with other members of the Rab family.

Subcellular Location:
Cytoplasm.

Tissue Specificity:
Widely expressed. Expressed in heart, kidney, lung placenta. Expressed at low level in skeletal muscle, spleen and peripheral blood.

DISEASE:
Defects in RIN2 are the cause of MACS syndrome (MACS) [MIM:613075]; also called macrocephaly alopecia cutis laxa and scoliosis syndrome. MACS is an autosomal-recessive inherited complex disorder of elastic tissue, characterized by sagging skin and occasionally by life-threatening visceral complications.

Similarity:
Belongs to the RIN (Ras interaction/interference) family.
Contains 1 Ras-associating domain.
Contains 1 SH2 domain.
Contains 1 VPS9 domain.

SWISS:
Q8WYP3

Gene ID:
54453

Database links:

Entrez Gene: 54453 Human

	Omim: 610222 Human SwissProt: Q8WYP3 Human Unigene: 472270 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.