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Rabenosyn 5 Rabbit pAb

Catalog # AP99238

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H1K0
Other Accession	Q9H1K0
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88870
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Rabenosyn 5
Epitope Specificity	31-130/784
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 C2H2-type zinc finger. Contains 1 FYVE-type zinc finger. Contains 1 UIM (ubiquitin-interacting motif) repeat.
SUBUNIT	Interacts with EHD1, RAB4A, RAB5A, RAB14, RAB22A, RAB24 and VPS45. Binds simultaneously to RAB4A and RAB5A in vitro. Interacts with RAB4A and RAB5A that has been activated by GTP binding.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that belongs to the FYVE zinc finger family of proteins. The encoded protein interacts with Ras-related proteins that regulate membrane trafficking. A missense mutation in this gene is associated with a defect in the early endocytic pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Additional Information

Gene ID	64145
Other Names	KAREVS; MFANDO; Rabenosyn-5; ZFYVE20; RBNS5_HUMAN; RBSN; 110 kDa protein; FYVE finger-containing Rab5 effector protein rabenosyn-5; RAB effector RBSN; Zinc finger FYVE domain-containing protein 20; rabenosyn, RAB effector; zinc finger, FYVE domain containing 20
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,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	RBSN (HGNC:20759)
Function	Rab4/Rab5 effector protein acting in early endocytic membrane fusion and membrane trafficking of recycling endosomes. Required for endosome fusion either homotypically or with clathrin coated vesicles. Plays a role in the lysosomal trafficking of CTSD/cathepsin D from the Golgi to lysosomes. Also promotes the recycling of transferrin directly from early endosomes to the plasma membrane. Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate (PtdInsP3) (PubMed:11062261, PubMed:11788822, PubMed:15020713). Plays a role in the recycling of transferrin receptor to the plasma membrane (PubMed:22308388).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid-anchor. Note=Enriched in endosomes that are in close proximity to clathrin-enriched regions at the cell surface.

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