

Anti-Rabenosyn 5 Antibody

Catalog # AP60654

Product Information

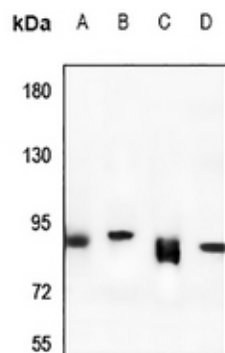
Application	WB, IF/IC
Primary Accession	Q9H1K0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88870

Additional Information

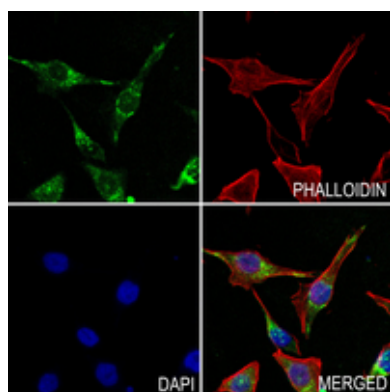
Gene ID	64145
Other Names	Rabenosyn-5; 110 kDa protein; FYVE finger-containing Rab5 effector protein rabenosyn-5; Zinc finger FYVE domain-containing protein 20
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Rabenosyn 5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

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.



Western blot analysis of Rabenosyn 5 expression in A549 (A), HeLa (B), BV2 (C), PMVEC (D) whole cell lysates. (Predicted band size: 88 kD; Observed band size: 89 kD)



Immunofluorescent analysis of Rabenosyn 5 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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