

RUFY1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57296

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q96T51
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79818

Additional Information

Gene ID	80230
Other Names	RUN and FYVE domain-containing protein 1, FYVE-finger protein EIP1, La-binding protein 1, Rab4-interacting protein, Zinc finger FYVE domain-containing protein 12, RUFY1, RABIP4, ZFYVE12
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=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	RUFY1 (HGNC:19760)
Synonyms	RABIP4, ZFYVE12
Function	Activating adapter involved in cargo sorting from early/recycling endosomes. Regulates retrieval of proteins from endosomes to the trans-Golgi network through interaction with the dynein-dynactin complex (PubMed: 36282215). Dual effector of RAB4B and RAB14, mediates a cooperative interaction allowing endosomal tethering and fusion (PubMed: 20534812). Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in early endosomal trafficking (PubMed: 14617813). In oocytes, self-assembles to form a protein matrix which hold together endolysosomes, autophagosomes and proteasomes and generate non-membrane-bound compartments called endo- lysosomal vesicular assemblies (ELVAs). In immature oocytes, ELVAs sequester ubiquitinated protein aggregates and degrade them upon oocyte maturation (By similarity).
Cellular Location	Early endosome membrane; Peripheral membrane protein. Note=In oocytes, localizes in non-membrane-bound compartments called endo-lysosomal

vesicular assemblies (ELVAs). {ECO:0000250|UniProtKB:Q8BIJ7}

Tissue Location

Broadly expressed, with highest levels in lung, testis, kidney and brain.

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