

Rabbit anti-Human, Mouse RUFY1 Polyclonal Antibody | anti-RUFY1 antibody

RUFY1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325098	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

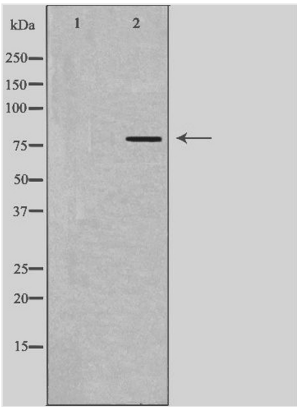
PRODUCT SYNONYMS

RUFY1; Polyclonal Antibody; RUFY1 Antibody; 3000002E04Rik; FLJ22251; FYVE finger protein EIP1; FYVE-finger protein EIP1; La binding protein 1; La-binding protein 1; OTTHUMP00000161521; Rab4 interacting protein; Rab4-interacting protein; RABIP4; RUFY1_HUMAN; RUN and FYVE domain containing 1; RUN and FYVE domain-containing protein 1; RUN and FYVE domains containing protein 1; ZFYVE12; Zinc finger FYVE domain containing protein 12; Zinc finger FYVE domain-containing protein 12; anti-RUFY1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RUFY1 antibody detects endogenous levels of total RUFY1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	600
Applicable Applications for anti-RUFY1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Early endosome membrane.
Tissue Specificity	Broadly expressed, with highest levels in lung, testis, kidney and brain.
Predicted Cross Reactivity	Pig, Rabbit, Dog, Chicken
Similarity	Pig (100%), Rabbit (100%), Dog (89%), Chicken (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using RUFY1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325098 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RUFY1 antibody

Function: Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in early endosomal trafficking.
Subunit Structure: Interacts with BMX. May interact with SSB. Interacts with RAB4 and RAB5 that have been activated by GTP-binding.
Post-translational Modifications: Phosphorylation on Tyr-389 and/or Tyr-400 is required for interaction with BMX and endosomal targeting.
Similarity: The FYVE-type zinc finger domain mediates interactions with phosphatidylinositol 3-phosphate in membranes of early endosomes and penetrates bilayers. The FYVE domain insertion into PtdIns3P-enriched membranes is substantially increased in acidic conditions.

NCBI AND UNIPROT INFORMATION

NCBI GI #	94721332
NCBI GeneID	80230
NCBI Accession #	NP_001035541.1
NCBI GenBank Nucleotide #	NM_001040451.2
UniProt Accession #	Q96T51; Q59FF3; Q71S93; Q9H6I3
Molecular Weight	Observed: 80 kD Predicted: 80 kDa
NCBI Official Full Name	RUN and FYVE domain-containing protein 1 isoform b
NCBI Official Synonym Full Names	RUN and FYVE domain containing 1
NCBI Official Symbol	RUFY1
NCBI Official Synonym Symbols	RABIP4; ZFYVE12
NCBI Protein Information	RUN and FYVE domain-containing protein 1
UniProt Protein Name	RUN and FYVE domain-containing protein 1
UniProt Gene Name	RUFY1
UniProt Synonym Gene Names	RABIP4; ZFYVE12

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

