

RUFY1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3408a**Specification**

RUFY1 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q96T51
Other Accession	NP_079434.3 , NP_001035541.1 , 80230 , 216724 (mouse), 360521 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	79818

RUFY1 Antibody (internal region) - 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

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RUFY1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

RUFY1 Antibody (internal region) - 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}

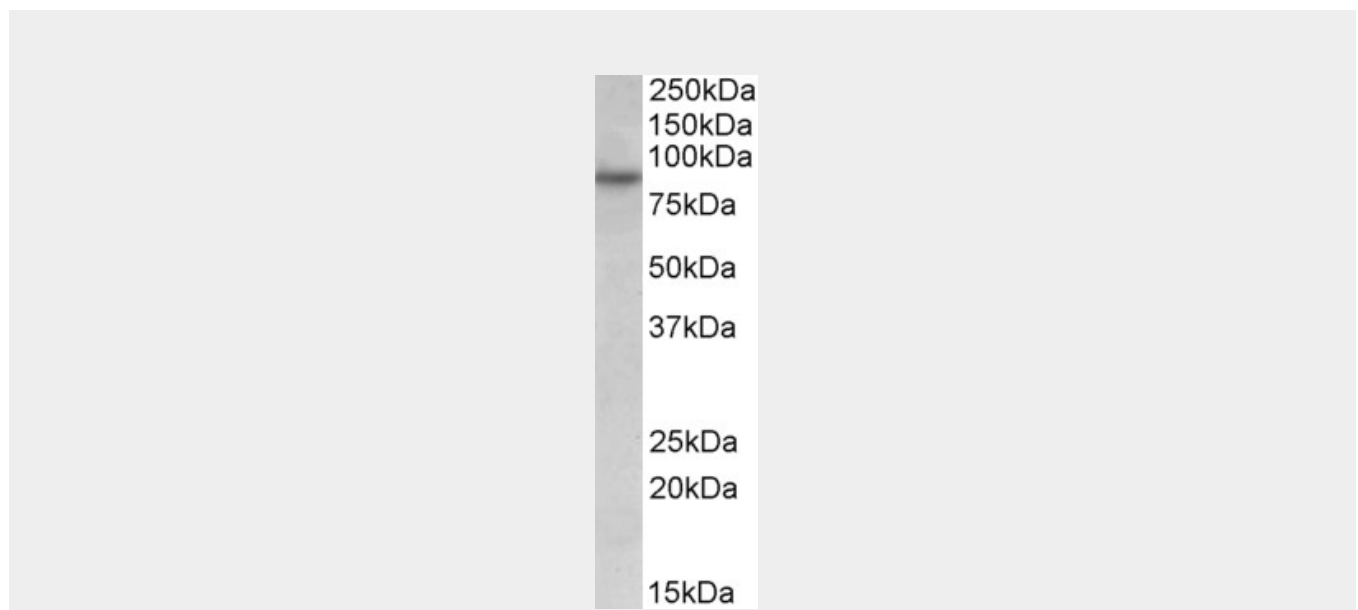
Tissue Location

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

RUFY1 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RUFY1 Antibody (internal region) - Images

AF3408a (0.05 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

RUFY1 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_079434.3; NP_001035541.1). Reported variants represent identical protein: NP_001035542.1, NP_001035541.1.

RUFY1 Antibody (internal region) - References

ATM and ATR substrate analysis reveals extensive protein networks responsive to DNA damage. Matsuoka S, Ballif BA, Smogorzewska A, McDonald ER, Hurov KE, Luo J, Bakalarski CE, Zhao Z, Solimini N, Lerenthal Y, Shiloh Y, Gygi SP, Elledge SJ, Science (New York, N.Y.) 2007 May 316 (5828): 1160-6. PMID: 17525332