

RUFY4/FLJ46536 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56149

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q6ZNE9
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64350
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FLJ46536
Epitope Specificity	131-230/372
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Contains 1 FYVE-type zinc finger and 1 RUN domain.

Additional Information

Gene ID	285180
Other Names	RUN and FYVE domain-containing protein 4, RUFY4
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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

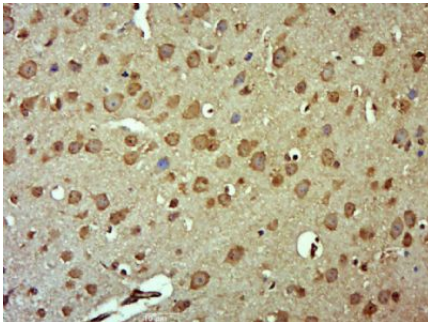
Name	RUFY4
Function	ARL8 effector that promotes the coupling of endolysosomes to dynein-dynactin for retrograde transport along microtubules. Acts by binding both GTP-bound ARL8 and dynein-dynactin. In nonneuronal cells, promotes concentration of endolysosomes in the juxtannuclear area. In hippocampal neurons, drives retrograde transport of endolysosomes from the axon to the

soma (PubMed:[35314674](#)). Positive regulator of macroautophagy in dendritic cells. Increases autophagic flux, probably by stimulating both autophagosome formation and facilitating tethering with lysosomes. Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through its FYVE-type zinc finger (PubMed:[26416964](#)). Positive regulator of osteoclast bone-resorbing activity, possibly by promoting late endosome-lysosome fusion by acting as an adapter protein between RAB7A on late endosomes and LAMP2 on primary lysosomes (By similarity).

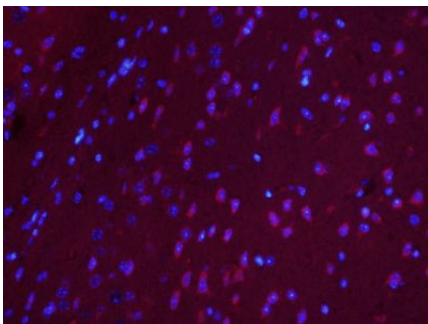
Cellular Location

Cytoplasmic vesicle, autophagosome. Lysosome Note=In the presence of ARL8, recruited to endolysosomes

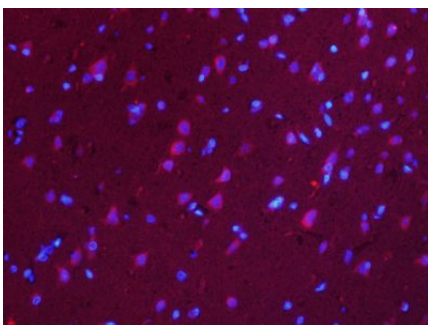
Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RUFY4) Polyclonal Antibody, Unconjugated (AP56149) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RUFY4/FLJ46536) Polyclonal Antibody, Unconjugated (AP56149) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-cy3) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RUFY4/FLJ46536) Polyclonal Antibody, Unconjugated (AP56149) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-cy3) for 90 minutes, and DAPI for nuclei staining.

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