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RAB11FIP2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5475c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q7L804
Other Accession	NP_055719.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26866
Calculated MW	58279
Antigen Region	345-374

Additional Information

Gene ID	22841
Other Names	Rab11 family-interacting protein 2, Rab11-FIP2, NRip11, RAB11FIP2, KIAA0941
Target/Specificity	This RAB11FIP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 345-374 amino acids from the Central region of human RAB11FIP2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RAB11FIP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB11FIP2
Synonyms	KIAA0941
Function	A Rab11 effector binding preferentially phosphatidylinositol

3,4,5-trisphosphate (PtdInsP3) and phosphatidic acid (PA) and acting in the regulation of the transport of vesicles from the endosomal recycling compartment (ERC) to the plasma membrane. Involved in insulin granule exocytosis. Also involved in receptor-mediated endocytosis and membrane trafficking of recycling endosomes, probably originating from clathrin-coated vesicles. Required in a complex with MYO5B and RAB11 for the transport of NPC1L1 to the plasma membrane. Also acts as a regulator of cell polarity. Plays an essential role in phagocytosis through a mechanism involving TICAM2, RAC1 and CDC42 Rho GTPases for controlling actin-dynamics.

Cellular Location

Cell projection, phagocytic cup. Cell membrane; Peripheral membrane protein. Recycling endosome membrane; Peripheral membrane protein Note=Translocates with RAB11A from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane

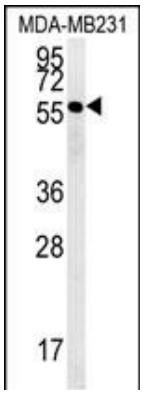
Background

RAB11FIP2 is an adapter protein that plays a role in the secretory pathway. It is thought to be important for endosome recycling and receptor-mediated endocytosis. In endosome recycling, RAB11-FIP2 regulates vesicle transport from the endosomal recycling compartment (ERC) to the plasma membrane.

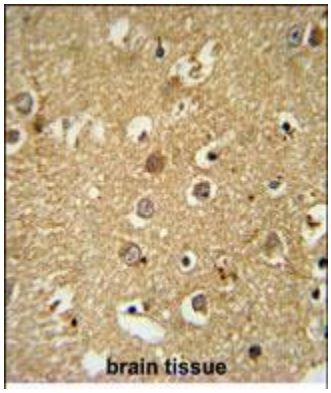
References

Wang, Z., et al. Cell 135(3):535-548(2008)
Utley, T.J., et al. Proc. Natl. Acad. Sci. U.S.A. 105(29):10209-10214(2008)
Ducharme, N.A., et al. Am. J. Physiol., Cell Physiol. 293 (3), C1059-C1072 (2007)

Images

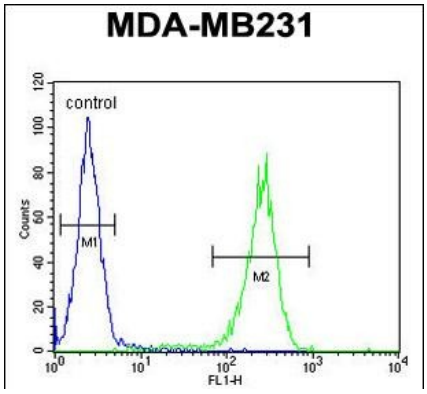


RAB11FIP2 Antibody (Center) (Cat.#AP5475c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the RAB11FIP2 antibody detected the RAB11FIP2 protein (arrow).



RAB11FIP2 Antibody (Center) (Cat. #AP5475c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RAB11FIP2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

RAB11FIP2 Antibody (Center) (Cat. #AP5475c) flow cytometric analysis of MDA-MB231 cells (right histogram)



compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.