10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ARF5 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17093C

Product Information

Application	WB, E
Primary Accession	P84085
Other Accession	P84083, P84084, NP_001653.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37019
Calculated MW	20530
Antigen Region	80-108

Additional Information

Gene ID	381
Other Names	ADP-ribosylation factor 5, ARF5
Target/Specificity	This ARF5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 80-108 amino acids from the Central region of human ARF5.
Dilution	WB~~1:2000 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	ARF5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ARF5
Function	GTP-binding protein involved in protein trafficking. Contributes to vesicle budding and uncoating at the Golgi apparatus. Regulates mTORC1 activity at the plasma membrane by promoting its recruitment to membrane ruffles,

	facilitating activation via the PI3K/Akt signaling pathway (PubMed:36735494). Acts as an early responder to lysosomal damage and participates in lysosomal quality control pathways (PubMed:41293316).
Cellular Location	Cell membrane. Golgi apparatus. Cytoplasm, perinuclear region. Lysosome membrane; Lipid-anchor. Golgi apparatus, trans-Golgi network membrane; Lipid-anchor {ECO:0000250|UniProtKB:P84084}

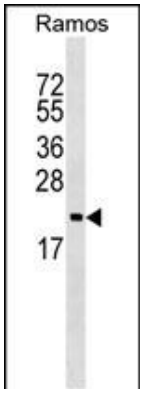
Background

ADP-ribosylation factor 5 (ARF5) is a member of the human ARF gene family. These genes encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. The gene products include 6 ARF proteins and 11 ARF-like proteins and constitute 1 family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2,and ARF3), class II (ARF4 and ARF5) and class III (ARF6). The members of each class share a common gene organization. The ARF5 gene spans approximately 3.2kb of genomic DNA and contains six exons and five introns. [provided by RefSeq].

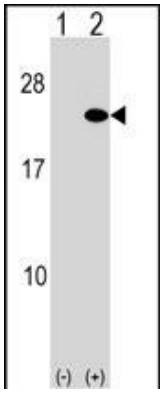
References

Shiba, T., et al. Proc. Natl. Acad. Sci. U.S.A. 103(42):15416-15421(2006)
Austin, C., et al. Biochemistry 41(14):4669-4677(2002)
Shin, O.H., et al. Biochemistry 40(36):10846-10852(2001)
Nevrivy, D.J., et al. J. Biol. Chem. 275(22):16827-16836(2000)
Kondo, A., et al. Mol. Biol. Cell 11(4):1315-1327(2000)

Images



ARF5 Antibody (Center) (Cat. #AP17093c) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the ARF5 antibody detected the ARF5 protein (arrow).



Western blot analysis of ARF5 (arrow) using rabbit polyclonal ARF5 Antibody (Center) (Cat. #AP17093c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ARF5 gene.

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