Datasheet for ABIN6145651

anti-PIKFYVE antibody (AA 172-451)

Go to Product page

Overview

Quantity:	100 µL
Target:	PIKFYVE
Binding Specificity:	AA 172-451
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIKFYVE antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 172-451 of human PIKFYVE (NP_689884.1).
Sequence:	DLAWQSLIHP DSSNTPLSTR LVSVQEDAGK SPARNRSASI TNLSLDRSGS PMVPSYETSV SPQANRTYVR TETTEDERKI LLDSVQLKDL WKKICHHSSG MEFQDHRYWL RTHPNCIVGK ELVNWLIRNG HIATRAQAIA IGQAMVDGRW LDCVSHHDQL FRDEYALYRP LQSTEFSETP SPDSDSVNSV EGHSEPSWFK DIKFDDSDTE QIAEEGDDNL ANSASPSKRT SVSSFQSTVD SDSAASISLN VELDNVNFHI KKPSKYPHVP PHPADQKGRR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PIKFYVE
Alternative Name:	PIKFYVE (PIKFYVE Products)
Background:	Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of the inositol ring. This gene encodes an enzyme (PIKfyve, also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. The D-5 position also can be phosphorylated by type I PtdIns4P-5-kinases (PIP5Ks) that are encoded by distinct genes and preferentially phosphorylate D-4 phosphorylated PtdIns. In contrast, PIKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PIKfyve also has protein kinase activity. PIKfyve regulates endomembrane homeostasis and plays a role in the biogenesis of endosome carrier vesicles from early endosomes. Mutations in this gene cause corneal fleck dystrophy (CFD), an autosomal dominant disorder characterized by numerous small white flecks present in all layers of the corneal stroma. Histologically, these flecks appear to be keratocytes distended with lipid and mucopolysaccharide filled intracytoplasmic vacuoles. Alternative splicing results in multiple transcript variants encoding distinct isoforms.,PIKFYVE,CFD,FAB1,HEL37,PIP5K,PIP5K3,ZFYVE29,Cancer,Signal Transduction,Kinase,PI3K-Akt Signaling Pathway,Cell Biology & Developmental Biology,Cytoskeleton,Actins,Endocrine & Metabolism,Lipid Metabolism,PIKFYVE
Molecular Weight:	50 kDa/51 kDa/61 kDa/237 kDa
Gene ID:	200576
UniProt:	Q9Y2I7
Pathways:	Inositol Metabolic Process

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

