.-online.com antibodies

Datasheet for ABIN2729013 **PIKFYVE Protein (His tag)**

Image



Overview

Quantity:	50 µg	
Target:	PIKFYVE	
Origin:	Human	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This PIKFYVE protein is labelled with His tag.	
Application:	Antibody Production (AbP), Standard (STD)	
Product Details		
Characteristics:	 Recombinant human PIP5K3 (full length, N-term HIS tag, transcript variant 4) protein expressed in E.coli. 	
	Produced with end-sequenced ORF clone	
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining	
Target Details		
Target:	PIKFYVE	
Alternative Name:	Pip5k3 (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	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2729013 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	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.[provided by RefSeq, May 2010].
Molecular Weight:	62 kDa
NCBI Accession:	NP_001171471
Pathways:	Inositol Metabolic Process
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the N-terminal.

Restrictions:

HandlingConcentration:50 μg/mLBuffer:25 mM Tris, pH 8.0, 150 mM NaCl, 10 % glycerol, 1 % Sarkosyl.Storage:-80 °CStorage Comment:Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze
immediately. Only 2-3 freeze thaw cycles are recommended.

For Research Use only

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN2729013 | 09/11/2023 | Copyright antibodies-online. All rights reserved. Images

122	-	
86 -	-	
67 —		-
49 -	-	
40 -	-	
30 -	-	
25 -	-	
16 12		

Western Blotting

Image 1. Validation with Western Blot

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN2729013 | 09/11/2023 | Copyright antibodies-online. All rights reserved.