

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA810373BM

PIP5K3 (PIKFYVE) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1D3]

Product data:

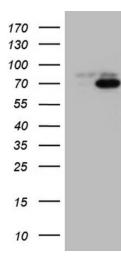
Product Type:	Primary Antibodies
Clone Name:	OTI1D3
Applications:	WB
Recommended Dilution:	WB 1:500~2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PIKFYVE (NP_001171471) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	phosphoinositide kinase, FYVE-type zinc finger containing
Database Link:	<u>NP_001171471</u> <u>Entrez Gene 18711 MouseEntrez Gene 316457 RatEntrez Gene 200576 Human</u> <u>Q9Y2I7</u>



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	PIP5K3 (PIKFYVE) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1D3] – TA810373BM
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 (PlKfyve; 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, PlKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PlKfyve also has protein kinase activity. PlKfyve 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]
Synonyms:	CFD; FAB1; HEL37; PIP5K; PIP5K3; ZFYVE29
Protein Families:	Druggable Genome
Protein Pathways	: Endocytosis, Fc gamma R-mediated phagocytosis, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton
Product image	es:

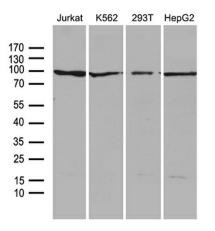
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PIKFYVE ([RC230258], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PIKFYVE (1:2000).

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Western blot analysis of extracts (35ug) from 4 different cell lines by using anti-PIKFYVE monoclonal antibody (1:500).

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