For Research Use Only

ALPK1 Monoclonal antibody

Catalog Number:67689-1-lg

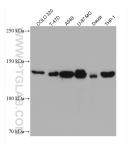


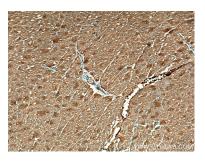
Basic Information	Catalog Number: 67689-1-lg	GenBank Accession Number BC060780	: Purification Method: Protein A purification
	Size: 150ul , Concentration: 791 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG5320	GenelD (NCBI): 80216	CloneNo.: 2B8B5
		UNIPROT ID: Q96QP1 Full Name: alpha-kinase 1	Recommended Dilutions: WB 1:2000-1:10000
			IHC 1:250-1:1000 IF/ICC 1:200-1:800
		Calculated MW: 139 kDa	
		Observed MW: 139 kDa	
Applications			tive Controls:
	WB, IHC, IF/ICC, ELISA Species Specificity: human		COLO 320 cells, T-47D cells, A549 cells, U-87 MG , Daudi cells, THP-1 cells
			human heart tissue,
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		C : THP-1 cells,
Background Information	Alpha-protein kinase 1, also known as alpha-kinase 1 (ALPK1), is associated with chronic kidney disease (CKD), myocardial infarction, gout and type 2 diabetes mellitus (DM). ALPK1 mutant has been reported to cause severe defects in motor co-ordination in mice. ALPK1 enhances the expression of proinflammatory cytokines including IL- 1β, IL-8 and TGF-β1 in cultured human THP1 and human embryonic kidney 293 (HEK293) cells (PMID: 31557402, PMID: 26275947). ALPK1 short isoform (108 kDa) was highly expressed in brain, spinal cord, heart, lung, spleen, thymus, small intestine, skin and testis, while detectable inskeletal muscle and kidney. ALPK1 large isoform (130 kDa) appeared in heart, lung, thymus and skin (PMID: 21208416).		
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage	

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

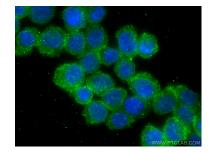
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 67689-1-1g (ALPK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human heart tissue slide using 67689-1-Ig (ALPK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using ALPK1 antibody (67689-1-lg, Clone: 2B8B5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).