For Research Use Only

AMPK Alpha 2 Polyclonal antibody

Catalog Number:18167-1-AP

Featured Product

48 Publications

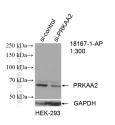


Basic Information	Catalog Number: 18167-1-AP	GenBank Accession Number: BC069680		Purification Method: Antigen affinity purification	
	Size:	GenelD (NC	31):	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400	
	600 µg/ml	5563			
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG12796	UNIPROT ID: P54646			
		Full Name:			
		protein kina	F 1:50-1:500 protein kinase, AMP-activated, alpha 2 catalytic subunit		
			Calculated MW: 552 aa, 62 kDa		
		Observed M 62 kDa	W:		
Applications			Positive Cor	ntrols:	
	IF/ICC, IHC, IP, WB, ELISA Cited Applications: WB, IP, IF, IHC		tissue, rat ov	WB : HeLa cells, HEK-293 cells, human skeletal muscle tissue, rat ovary tissue, SKOV-3 cells, MCF-7 cells IP : mouse skeletal muscle tissue,	
	Species Specificity:		IP : mouse sl		
	burnar, mouse, rat IHC : humar Cited Species: IF : MCF-7 co human, rat, mouse, pig IF : MCF-7 co		n breast cancer tissue, mouse skeletal Je		
			ells,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	PRKAA2(protein kinase, AMP-activated, alpha 2 catalytic subunit), also named as AMPKA2, AMPK, PRKAA, AMPK2, belongs to the CAMK Ser/Thr protein kinase family and SNF1 subfamily. PRKAA2 is an $\alpha \beta \gamma$ heterotrimer that is activated by low cellular energy status, such as decreases in both the ATP/AMP ratio and the phosphocreatine content and it is a glycogen synthase kinase, phosphorylating Ser7 at the NH2 terminus, which decreases glycogen synthase activity (PMID:14532170). The protein can be ubiquitinated (PMID:21224036).				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Cefan Zhou	32972302	Autophagy	WB	
	Zhan Zhao	28959186	Front Mol Neurosci	WB	
	Lu Liu	27600020	Eur J Pharmacol	WB	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -20	nd 50% glycerol pH	17.3.		

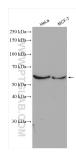
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

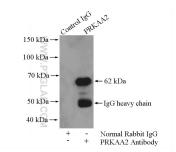
Selected Validation Data



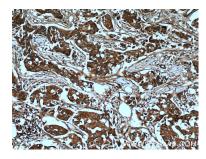
WB result of AMPK alpha 2 antibody (18167-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK alpha 2 transfected HEK-293 cells.



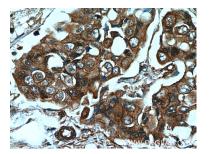
Various lysates were subjected to SDS PAGE followed by western blot with 18167-1-AP (AMPK alpha 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



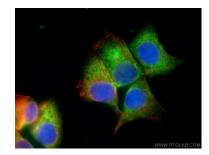
IP result of anti-AMPK Alpha 2 (IP:18167-1-AP, 4ug; Detection:18167-1-AP 1:1000) with mouse skeletal muscle tissue lysate 3600ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using AMPK Alpha 2 antibody (18167-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).