For Research Use Only

PPP3CA Monoclonal antibody

Catalog Number:68163-1-lg



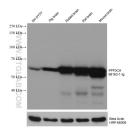
Basic Information	Catalog Number: 68163-1-Ig	GenBank Accession Number: BC025714		Purification Method: Protein A purification	
	Concentration:GeneID (NCBI):1000 ug/ml5530			CloneNo.: 2A5C1	
	Source: Mouse	UNIPROT ID: Q08209 Full Name: protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform Calculated MW: 59 kDa		Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000	
	Isotype: IgG2b Immunogen Catalog Number: AG32642				
					Observed MW: 59 kDa
		Applications	Tested Applications: WB, IHC, IP, ELISA		Positive Controls:
WD, ITIC, IP, ELISA Species Specificity: human, mouse, rat, pig, rabbit	bra		WB : SH-SY5Y cells, rabbit skeletal muscle tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, rat skeletal muscle		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			IP : rat brain tissue,		
			IHC : human thyroid cancer tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue		
Background Information	PPP3CA, also called calcineurin A a, is the only serine/threonine protein phosphatase under the control of Ca2+/calmodulin, and plays a critical role in the coupling of Ca2+ signals to cellular responses. Ca2+ signaling plays a central role in hypertrophic growth of cardiac and skeletal muscle in response to mechanical load and a variety of signals. Therefore, PPP3CA plays an important role in muscle differentiation, especially in muscle fiber type conversion. It is also involved in osteoclast regulation, regulating bone formation through an effect on osteoblast differentiation.				
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol, pH7.3			

 For technical support and original validation data for this product please contact:

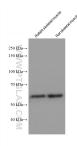
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

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

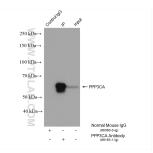
Selected Validation Data



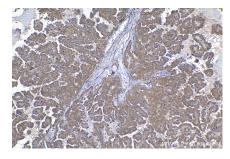
Various lysates were subjected to SDS PAGE followed by western blot with 68163-1-Ig (PPP3CA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



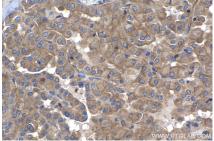
Various lysates were subjected to SDS PAGE followed by western blot with 68163-1-lg (PPP3CA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



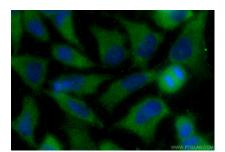
IP result of anti-PPP3CA (IP:68163-1-Ig, 5ug; Detection:68163-1-Ig 1:4000) with rat brain tissue lysate 1120 ug.



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-1g (PPP3CA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human thyroid cancer tissue slide using 68163-1-1g (PPP3CA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PPP3CA antibody (68163-1-Ig, Clone: 2A5C1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).