For Research Use Only

## TPC1 Polyclonal antibody Catalog Number:23758-1-AP Featured Product

Featured Product



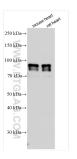


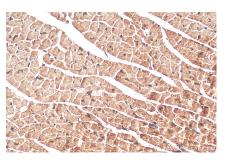
Basic Information	Catalog Number: 23758-1-AP	GenBank Accession Number: BC 136795		Purification Method: Antigen Affinity purified	
	Size:	GeneID (NCBI):		Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:50-1:500	
	650 ug/ml 53373		<b>h</b>		
	Source: Rabbit				
	lsotype: IgG	Full Name: two pore segment channel 1			
	Immunogen Catalog Number: AG20607		Calculated MW: 816 aa, 94 kDa Observed MW: 94 kDa		
Applications	Tested Applications:		Positive Controls: WB : mouse heart tissue, rat heart tissue		
	WB, IHC, IF/ICC, ELISA				
	Cited Applications: IHC : mo WB		IHC : mous	se heart tissue,	
	Species Specificity: human, mouse, rat		IF/ICC : HepG2 cells,		
	Cited Species: mouse				
	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	Two-pore channels (TPCs) are ancient members of the voltage-gated ion channel superfamily, are thought to be non-selective cation channels permeable to Ca2+. They mediate their physiological effects through releasing Ca2+ from acidic organelles in response to cues such as the second messenger, NAADP (nicotinic acid adenine dinucleotide phosphate). Genetic knockout and pharmacological inhibition experiments demonstrate that the two- pore channels, TPC1 and TPC2, are required for infection by Filoviruses Ebola and Marburg in mice.(PMID: 29746898; PMID 25722412) Two pore segment channel 1 (TPC1) is a human protein encoded by the TPCN1 gene.				
Notable Publications					
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yayu Wang Bing-Qian Su	34910516 38295116	Sci Adv PLoS Pathog	WB	
		50295110			
Storage	Storage: Store at -20°C. Stable for one ye Storage Buffer. PBS with 0.02% sodium azide ar		1177		

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

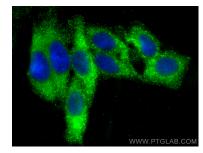
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## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 23758-1-AP (TPC 1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 23758-1-AP (TPCN1 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 HepG2 cells using TPC1 antibody (23758-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).