For Research Use Only

TRPM7 Polyclonal antibody

Catalog Number: 55251-1-AP 1 Publications

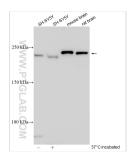


Basic Information	Catalog Number: 55251-1-AP Size: 150ul, Concentration: 700 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenBank Accession Number: NM_017672	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:1000
		GeneID (NCBI): 54822 UNIPROT ID: Q96QT4 Full Name: transient receptor potential cation	
		channel, subfamily M, member 7 Calculated MW: 213 kDa Observed MW:	
		220 kDa	
Applications	Tested Applications: WB, ELISA	Positive Controls: WB : SH-SY5Y cells, mouse brain tissue, rat brain tissue	
	Cited Applications: WB Species Specificity: human, mouse, rat Cited Species: mouse, rat		
Background Information	Transient receptor potential melastatin 7 (TRPM7), along with the closely related TRPM6, are unique channels that have dual operations: cation permeability and kinase activity. In contrast to the limited tissue distribution of TRPM6, TRPM7 is widely expressed among tissues and is therefore implicated in a variety of cellular functions physiologically and pathophysiologically. The discovery of TRPM7's unique structure imparting dual ion channel and kinase activities shed light onto novel and peculiar biological functions, such as Mg2+ homeostasis, cellular Ca2+ flickering, and even intranuclear transcriptional regulation by a cleaved kinase domain translocated to nucle The calculated MW of TRPM7 is 213 kDa, 55251-1-AP can detect a band around 220 kDa. (PMID: 32503408)		
Notable Publications	Author Pub	omed ID Journal	Application
	Jiaxin Chen 391	191357 Eur J Pharm Sci	WB
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50		

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

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55251-1-AP (TRPM7 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.