

For Research Use Only

TRPM7 Polyclonal antibody, PBS Only

Catalog Number: 55251-1-PBS



Basic Information

Catalog Number: 55251-1-PBS	GenBank Accession Number: NM_017672	Purification Method: Antigen affinity purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 54822	
Source: Rabbit	UNIPROT ID: Q96QT4	
Isotype: IgG	Full Name: transient receptor potential cation channel, subfamily M, member 7	
	Calculated MW: 213 kDa	
	Observed MW: 220 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, 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 nuclei. The calculated MW of TRPM7 is 213 kDa, 55251-1-AP can detect a band around 220 kDa. (PMID: 32503408)

Storage

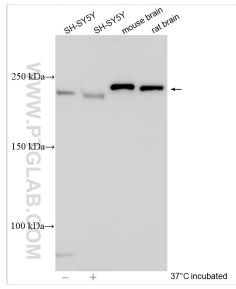
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

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.com 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. This data was developed using the same antibody clone with 55251-1-PBS in a different storage buffer formulation.