## For Research Use Only

## Phospho-Myosin Light Chain 2 (Thr18/Ser19) Recombinant antibody, PBS Only



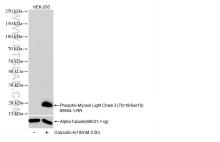
Catalog Number:85804-1-PBS

Basic Information	Catalog Number: 85804-1-PBS	GenBank Accession Number: BC016372	Purification Method: Protein A purification		
	Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 10627 UNIPROT ID: P19105	CloneNo.: 250098F12		
				Full Name: myosin, light chain 12A, regulatory, non-sarcomeric Calculated MW: 171 aa, 20 kDa	
		Observed MW: 19-20 kDa			
		Applications	Tested Applications: WB, Indirect ELISA		
			Species Specificity: human, mouse, rat		
Background Information	Myosin II is an actin-binding protein composed of MHC (myosin heavy chain), MLCs/MRLCs (myosin regulatory light chains) and ELCs (essential light chains). The Myosin Light Chains are divided into basic MLC (MLC I) and regulatory MLC (MLC II or Myosin Regulatory Light Chain, MRLC). MRLC can be classified into two major types: class I MRLC found in muscles (MLC1, MLC2, MLC3, MYL4, MYL5, MYL6, MYL7, etc), and class II MRLCs present in non-muscle cells (such as MYL9, MYL12A, MYL12B). Phosphorylation of myosin II regulatory light chain (MRLC) is important for cell motility and cytokinesis in nonmuscle cells. Phosphorylation of MRLC at Ser19 (1P-MRLC) enhances myosin II activity, which is further enhanced by MRLC diphosphorylation at Thr18/Ser19 (2P-MRLC) in vitro .PMID: 23951055,PMID: 21126233 This antibody can recognize the phosphorylation of three highly homologous Myosin-regulated light chains: MYL12A, MYL12B and MYL9.				
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<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

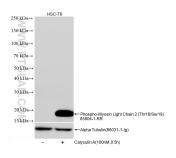
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## Selected Validation Data



NIH/3T:

250 kDa-



Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 85804-1-RR (Phospho-Myosin Light Chain 2 (Thr18/Ser19) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85804-1-PBS in a different storage buffer formulation. Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 85804-1-RR (Phospho-Myosin Light Chain 2 (Thr18/Ser19) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85804-1-PBS in a different storage buffer formulation. Calyculin A treated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 85804-1-RR (Phospho-Myosin Light Chain 2 (Thr18/Ser19) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85804-1-PBS in a different storage buffer formulation.