For Research Use Only

Phospho-4EBP1 (Thr37) Recombinant antibody, PBS Only (Capture) Catalog Number:81812-4-PBS

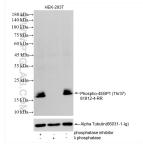
proteintech®
Antibodies ELISA kits Proteins

Basic Information	Catalog Number: 81812-4-PBS	GenBank Accession Number: BC004459	Purification Method: Protein A purification	
	Size: 1 mg/ml	GenelD (NCBI): 1978	CloneNo.: 240535G3	
	Source: Rabbit	UNIPROT ID: Q13541		
	Isotype: IgG	Full Name: eukaryotic translation initiation factor 4E binding protein 1		
		Calculated MW: 118 aa, 12 kDa		
		Observed MW: 15-20 kDa		
Applications	Tested Applications: WB, Cytometric bead array, Indirect ELISA			
	Species Specificity: human			
Background Information	4EBP1 (4E-BP1) is a translational regulator and functions by sequestering eukaryotic translation initiation factor 4E (eIF4E) from the translation initiation machinery. 4E-BP1 contains at least six phosphorylation sites (Thr37, Thr46, Ser65, Thr70, Ser83, and Ser112), four of which (Thr37, Thr46, Ser65, and Thr70) are known to be regulated by mTOR signaling. Phosphorylation of Thr37 and Thr46 is thought to prime 4E-BP1 for sequential phosphorylation of Ser65 and Thr70, which results in the dissociation of 4E-BP1 from eIF4E. (PMID: 12747827)			
Storage	Storage: Store at -80°C. The product is shipped with Storage Buffer: PBS Only	ice packs. Upon receipt, store it immediatel	yat-80℃	

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

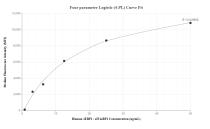
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Selected Validation Data



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Non-treated HEK-293T cells, phosphatase inhibitor treated HEK-293T cells and λ phosphatase treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 81812-4-RR (Phospho-4EBP1(Thr37) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-lg) antibody as a loading control. This data was developed using the same antibody clone with 81812-4-



Cytometric bead array standard curve of MP00559-2, Phospho-4EBP1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 81812-4-PBS. Detection antibody: 81812-3-PBS. Standard: SY01767P. Range: 0.78-50 ng/mL