For Research Use Only

## VCP Recombinant antibody

Catalog Number:82463-1-RR

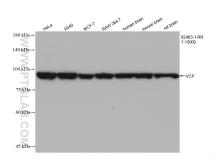


Basic Information	Catalog Number: 82463-1-RR	GenBank Accession Number: BC007562 GeneID (NCBI): 7415		Purification Method: Protein A purification	
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1002			CloneNo.: 3G23	
		UNIPROT ID: P55072		Recommended Dilutions: WB 1:5000-1:50000	
		Full Name: valosin-containing protein Calculated MW: 89 kDa		IHC 1:50-1:500 IF-P 1:250-1:1000 IF/ICC 1:500-1:2000	
					Observed MW: 89 kDa
		Applications			Positive Con
WB, IHC, IF/ICC, IF-P, ELISA Species Specificity: human, mouse, rat			WB : HeLa cells, A549 cells, MCF-7 cells, RAW 264.7 cells, human brain tissue, mouse brain tissue, rat brain tissue		
Note-IHC: suggested antigen r			IHC : rat small intestine tissue,		
TE buffer pH 9.0; (*) Alternativ retrieval may be performed w			IF-P : rat brain tissue,		
buffer pH 6.0			IF/ICC : HeLa cells,		
Background Information	VCP(Valosin-containing protein), also known as TER ATPase and 15S Mg2+-ATPase p97 subunit, belongs to the AAA ATPase family. VCP was first identified as a result of attempts to clone a putative peptide hormone called valosin. It was found that the cloned cDNA encoded a ubiquitously expressed 90 kDa cytosolic protein, termed VCP, which showed none of the characteristics of a peptide hormone precursor(PMID:1382975). Defects in VCP are the cause of inclusion body myopathy with early-onset Paget disease and frontotemporal dementia (IBMPFD) and amyotrophic lateral sclerosis type 14 with or without frontotemporal dementia (ALS14). VCP has a calculated molecular weight of 90-100 kDa (PMID: 15732117, 1382975).				
	of 89 kDa and an apparent molecular	weight of 90-100 kDa (	PMID: 157321	6	
Storage	of 89 kDa and an apparent molecular Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50° Aliquoting is unnecessary for -20°C st	er shipment. % glycerol pH 7.3.	PMID: 157321:	5	

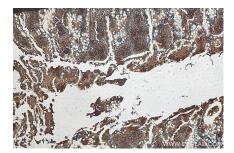
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

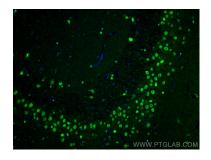
## Selected Validation Data



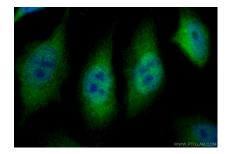
Various lysates were subjected to SDS PAGE followed by western blot with 82463-1-RR (VCP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded rat small intestine tissue slide using 82463-1-RR (VCP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



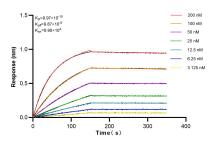
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using VCP antibody (82463-1-RR, Clone: 3G23) at dilution of 1:500 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-VCP (IP:82463-1-RR, 4ug; Detection:82463-1-RR 1:2000) with HeLa cells

lysate 1280 ug.

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using VCP antibody (82463-1-RR, Clone: 3G23 ) at dilution of 1:1000 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Biolayer interferometry (BLL) kinetic assays of 82463-1-RR against Human VCP were performed. The affinity constant is 0.997 nM.