

For Research Use Only

# VCP Recombinant antibody, PBS Only



Catalog Number: 82463-1-PBS

## Basic Information

<b>Catalog Number:</b> 82463-1-PBS	<b>GenBank Accession Number:</b> BC007562	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7415	<b>CloneNo.:</b> 3G23
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P55072	
<b>Isotype:</b> IgG	<b>Full Name:</b> valosin-containing protein	
<b>Immunogen Catalog Number:</b> AG1002	<b>Calculated MW:</b> 89 kDa	
	<b>Observed MW:</b> 89 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Indirect ELISA

**Species Specificity:**  
Human, mouse, rat

## Background Information

VCP (Valosin-containing protein), also known as TER ATPase and 15S Mg<sup>2+</sup>-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 89 kDa and an apparent molecular weight of 90-100 kDa (PMID: 15732117, 1382975).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

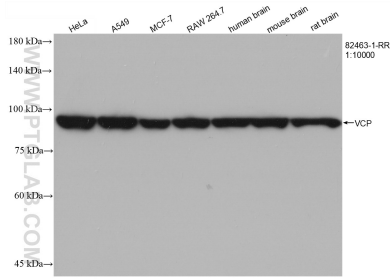
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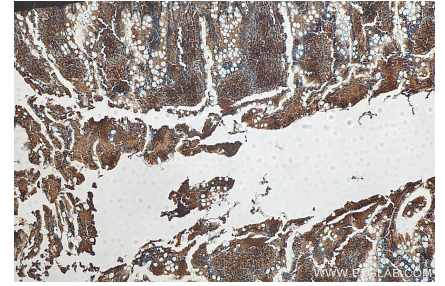
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## Selected Validation Data



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. This data was developed using the same antibody clone with 82463-1-PBS in a different storage buffer formulation.

IP result of anti-VCP (IP:82463-1-RR, 4ug; Detection:82463-1-RR 1:2000) with HeLa cells lysate 1280 ug. This data was developed using the same antibody clone with 82463-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded 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). This data was developed using the same antibody clone with 82463-1-PBS in a different storage buffer formulation.