

For Research Use Only

# VCP Recombinant antibody, PBS Only

Catalog Number: 82463-1-PBS



## Basic Information

Catalog Number:

82463-1-PBS

Size:

1mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1002

GenBank Accession Number:

BC007562

GeneID (NCBI):

7415

UNIPROT ID:

P55072

Full Name:

valosin-containing protein

Calculated MW:

89 kDa

Observed MW:

89 kDa

Purification Method:

Protein A purification

CloneNo.:

3G23

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

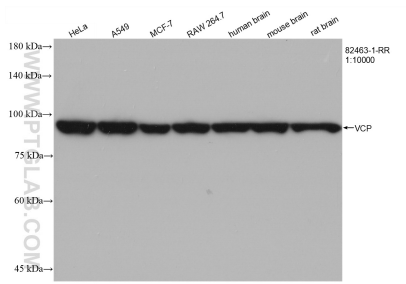
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

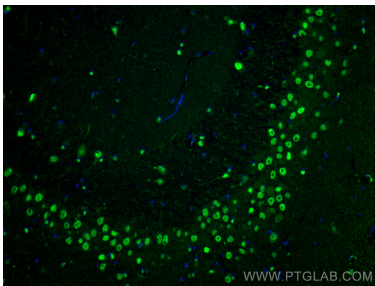
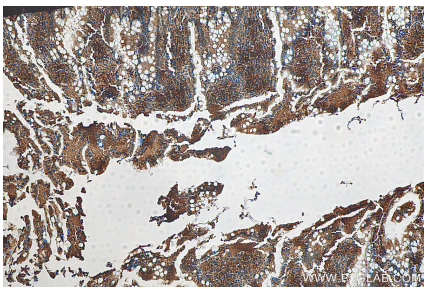
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

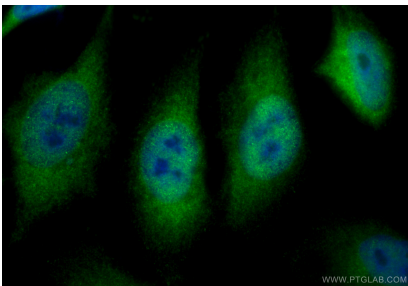


Various lysates were subjected to SDS PAGE followed by western blot with 82463-1-RR (VCP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82463-1-PBS in a different storage buffer formulation.

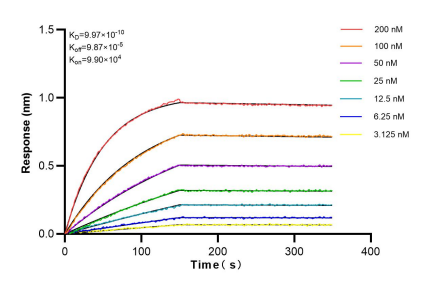
IP result of anti-VCP (IP:82463-1-RR, 4ug; Detection:82463-1-RR 1:2000) with HeLa cells lysate 1280 ug. This data was developed using the same antibody clone with 82463-1-PBS in a different storage buffer formulation.



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



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



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