

## VCP Polyclonal antibody

Catalog Number: 10736-1-AP

Featured Product

36 Publications

## Basic Information

## Catalog Number:

10736-1-AP

## Size:

450 µg/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:

90-100 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

CoIP, IF, IHC, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB**: HeLa cells, human brain tissue, rat lung tissue, mouse lung tissue, U2OS cells, C6 cells, mouse thymus tissue, mouse brain tissue, rat brain tissue, SH-SY5Y cells, NIH/3T3 cells

**IP**: HeLa cells, mouse brain tissue

**IHC**: human gliomas tissue, human colon cancer tissue, human lung cancer tissue

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB
Fan Zhang	34597680	Exp Cell Res	WB
Yang Wang	34560900	J Exp Clin Cancer Res	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

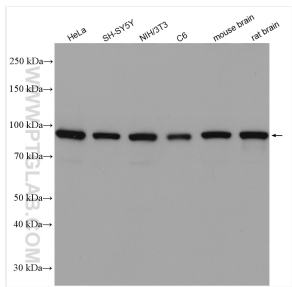
For technical support and original validation data for this product please contact:

T: 4006900926

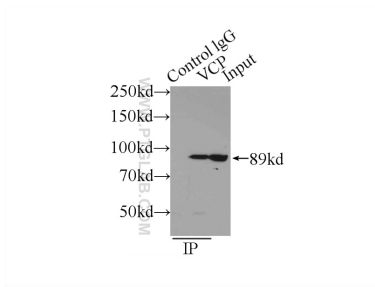
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

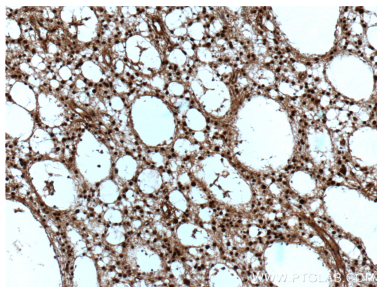
Selected Validation Data



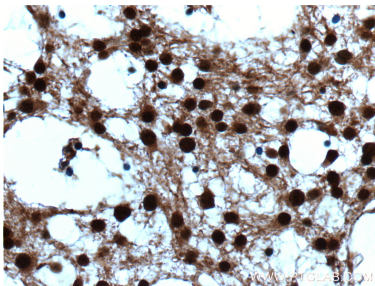
Various lysates were subjected to SDS PAGE followed by western blot with 10736-1-AP (VCP antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-VCP (IP:10736-1-AP, 4ug; Detection:10736-1-AP 1:1000) with HeLa cells lysate 1505ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10736-1-AP (VCP Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 10736-1-AP (VCP Antibody) at dilution of 1:200 (under 40x lens).