

For Research Use Only

VCP Polyclonal antibody

Catalog Number: 10736-1-AP

Featured Product

38 Publications



Basic Information

Catalog Number:

10736-1-AP

Size:

150ul, Concentration: 450 µg/ml by Nanodrop;

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:

WB, IP, IHC, ELISA

Cited Applications:

WB, IF, IHC, CoIP

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 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 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

*** 20ul sizes contain 0.1% BSA

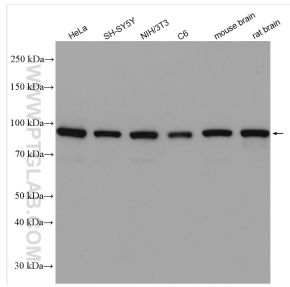
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

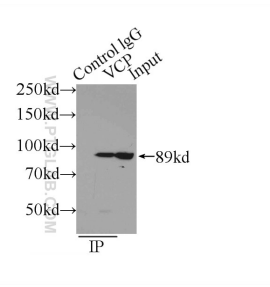
E: proteintech@ptglab.com
W: ptglab.com

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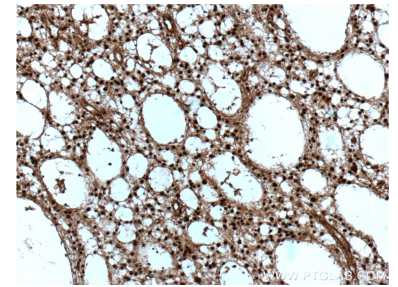
Selected Validation Data



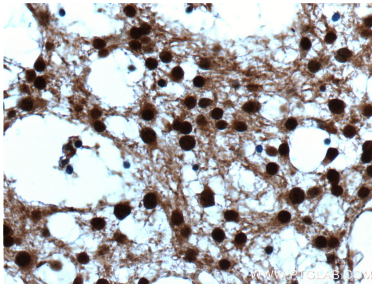
Various lysates were subjected to SDS PAGE followed by western blot with 10736-1-AP (VCP antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).