

VCP

Monoclonal ANTIBODY

Catalog Number: 60316-1-Ig

Featured Product

Basic Information

Catalog Number:
60316-1-Ig

Size:
100 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:
AG1002

GenBank Accession Number:
BC007562

GeneID (NCBI):
7415

Full Name:
valosin-containing protein

Calculated MW:
89 kDa

Observed MW:
89 kDa

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

human, mouse

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

Positive Controls:

WB : RAW 264.7 cells; HeLa cells, SH-SY5Y cells

IHC : human gliomas tissue;

IF : RAW 264.7 cells; SH-SY5Y 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 (PMD: 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 (PMD: 15732117, 1382975).

Notable Publications

Author	Pubmed ID	Journal	Application
--------	-----------	---------	-------------

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

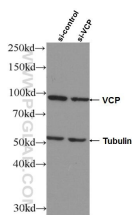
For technical support and original validation data for this product please contact:

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

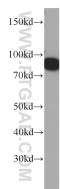
E: proteintech@ptglab.com
 W: ptglab.com

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

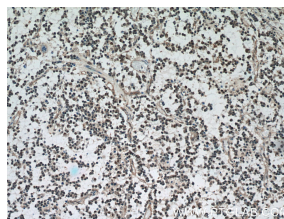
Selected Validation Data



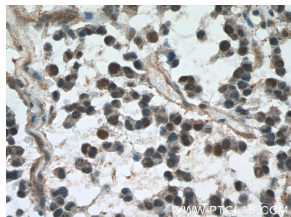
WB result of VCP antibody (60316-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VCP transfected HeLa cells



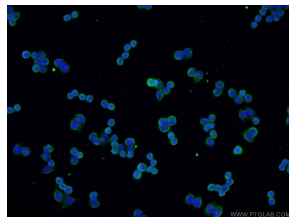
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 60316-1-Ig(VCP Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 60316-1-Ig(VCP Antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 60316-1-Ig(VCP Antibody) at dilution of 1:50 (under 40x lens)



Immunofluorescent analysis of RAW 264.7 cells using 60316-1-Ig(VCP antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)