For Research Use Only

VCP Monoclonal antibody

Catalog Number:60316-1-lg Featured Product

4 Publications



Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method: Protein A purification

60316-1-lg Size:

GeneID (NCBI):

CloneNo.:

IF 1:20-1:200

150ul , Concentration: 800 µg/ml by

Immunogen Catalog Number:

BC007562

2A4B10

Nanodrop and 667 μ g/ml by Bradford UNIPROT ID: method using BSA as the standard;

P55072

Recommended Dilutions:

Source:

Full Name:

WB 1:500-1:2000 IHC 1:20-1:200

Mouse Isotype:

AG1002

valosin-containing protein Calculated MW:

lgG1

89 kDa

Observed MW:

89 kDa

Applications

Tested Applications:

WB, IF, FC, IHC, ELISA

Cited Applications:

WB, IF, ChIP

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB: RAW 264.7 cells, WT and VCP KO U2OS cells, SH-

SY5Y cells, HeLa cells

IHC: human gliomas tissue,

IF: RAW 264.7 cells, HeLa cells, SH-SY5Y cells

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

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
Janja Božič	34534264	Brain	WB,IF
Xiao-Jing Li	33495516	Acta Pharmacol Sin	WB
Fengli Wang	37223481	Research (Wash D C)	WB,IF

Storage

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

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

Aliquoting is unnecessary for -20°C storage

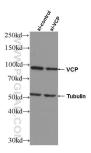
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

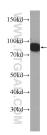
in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

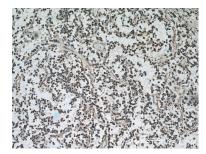
Selected Validation Data



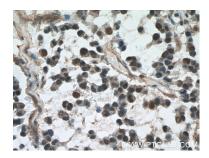
WB result of VCP antibody (60316-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VCP transfected HeLa cells.



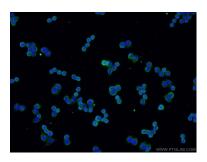
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 60316-1-1g (VCP Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



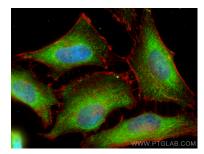
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 60316-1-Ig (VCP Antibody) at dilution of 1:50 (under 10x lens).



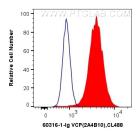
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 60316-1-Ig (VCP Antibody) at dilution of 1:50 (under 40x lens).



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



Immunofluorescent analysis of (-20°C Ethanol) fixed Hela cells using VCP antibody (60316-1-lg, Clone: 2A4B10) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 HL-60 cells were intracellularly stained with 0.4 ug Anti-Human VCP (60316-1-1g, Clone:2A4B10) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgC(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).