

VCP Polyclonal Antibody | anti-VCP antibody

Anti-VCP Antibody

CATALOG # AAA11662	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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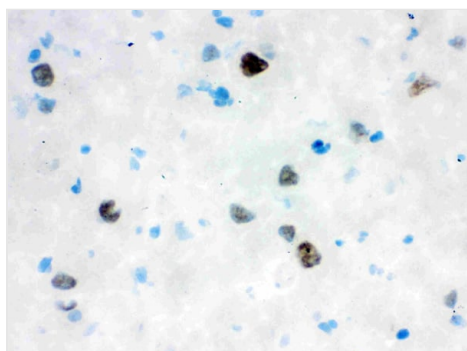
PRODUCT SYNONYMS

VCP; Polyclonal Antibody; Anti-VCP Antibody; Transitional endoplasmic reticulum ATPase; 15S Mg(2+) ATPase p97 subunit; 15S Mg(2+)-ATPase p97 subunit; ALS14; ATPase p97; IBMPFD; MGC131997; MGC148092; MGC8560; p97; TER ATPase; TERA; TERA_HUMAN; Valosin containing protein; Valosin-containing protein; Yeast Cdc48p homolog antibody; valosin containing protein; anti-VCP antibody

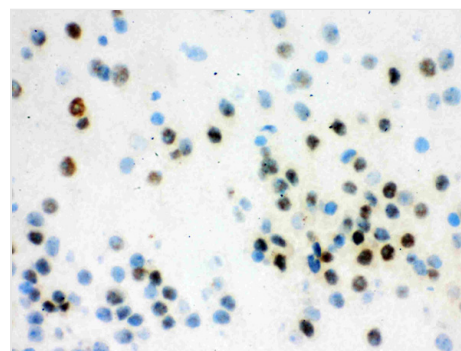
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Sequence Length	806
Applicable Applications for anti-VCP antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml Immunohistochemistry (IHC) Formalin Concentration: 0.5-1ug/ml
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human VCP (732-760aa RRDHFEEAMRFARRSVSDNIRKYEMFAQ), identical to the related rat and mouse sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

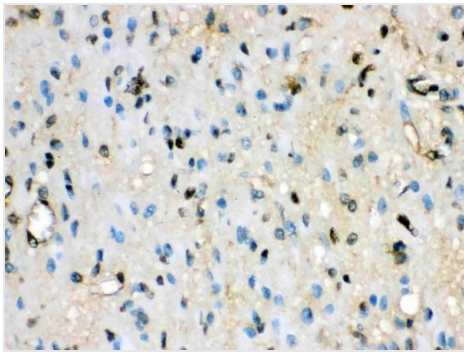
IMAGES



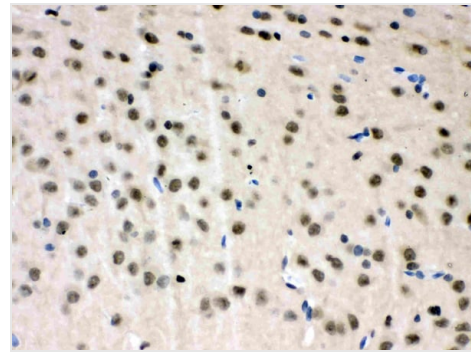
IHC (Immunohistochemistry)
Anti- VCP Picoband antibody, AAA11662, IHC(F)IHC(F): Rat Brain Tissue



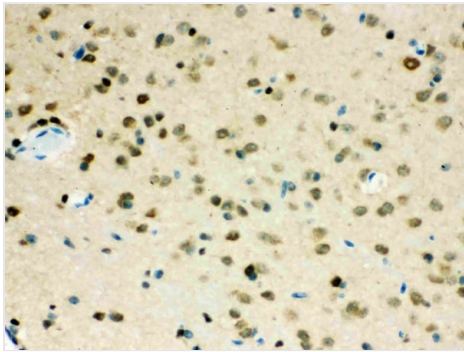
IHC (Immunohistochemistry)
Anti- VCP Picoband antibody, AAA11662, IHC(F)IHC(F): Mouse Brain Tissue



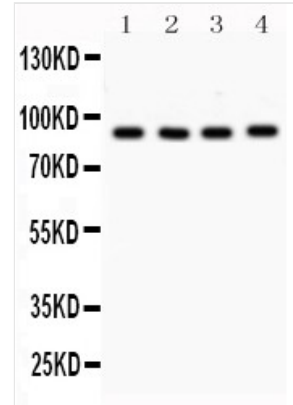
IHC (Immunohistochemistry)
Anti- VCP Picoband antibody, AAA11662, IHC(P)IHC(P): Human Glioma Tissue



IHC (Immunohistochemistry)
Anti- VCP Picoband antibody, AAA11662, IHC(P)IHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)
Anti- VCP Picoband antibody, AAA11662, IHC(P)IHC(P): Mouse Brain Tissue



WB (Western Blot)
Anti- VCP Picoband antibody, AAA11662, Western blottingAll lanes: Anti VCP (AAA11662) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ug/mlLane 2: Mouse Brain Tissue Lysate at 50ug/mlLane 3: HELA Whole Cell Lysate at 40ug/mlLane 4: 293T Whole Cell Lysate at 40ug/mlPredicted bind size: 89KDObserved bind size: 89KD

ADDITIONAL INFORMATION

Related Product Information for anti-VCP antibody

Description: Rabbit IgG polyclonal antibody for Transitional endoplasmic reticulum ATPase(VCP) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.

Background: Valosin-containing protein also called CDC48 is an enzyme that in humans is encoded by the VCP gene. It is a member of the AAA+ (ATPase associated with various activities) protein family. The VCP gene maps to chromosome 9p13.3. It is necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. It is involved in the formation of the transitional endoplasmic reticulum. This gene plays a role in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. It also involved in DNA damage response: recruited to double-strand breaks (DSBs) sites in a RNF8- and RNF168-dependent manner and promotes the recruitment of TP53BP1 at DNA damage sites.

References

1. Custer, S. K., Neumann, M., Lu, H., Wright, A. C., Taylor, J. P. Transgenic mice expressing mutant forms VCP recapitulate the full spectrum of IBMPFD including degeneration in muscle, brain and bone. Hum. Molec. Genet. 19: 1741-1755, 2010.
2. Haubenberger, D., Bittner, R. E., Rauch-Shorny, S., Zimprich, F., Mannhalter, C., Wagner, L., Mineva, I., Vass, K., Auff, E., Zimprich, A. Inclusion body myopathy and Paget disease is linked to a novel mutation in the VCP gene. Neurology 65: 1304-1305, 2005.
3. Mueller, B., Klemm, E. J., Spooner, E., Claessen, J. H., Ploegh, H. L. SEL1L nucleates a protein complex required for dislocation of misfolded glycoproteins. Proc. Nat. Acad. Sci. 105: 12325-12330, 2008.
4. Sacconi, S., Camano, P., de Greef, J. C., Lemmers, R. J. L. F., Salvati, L., Boileau, P., Lopez de Munain Arregui, A., van der Maarel, S. M., Desnuelle, C. Patients with a phenotype consistent with facioscapulohumeral muscular dystrophy display genetic and epigenetic heterogeneity. J. Med. Genet. 49: 41-46, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #

6005942

NCBI GeneID	7415
NCBI Accession #	NP_009057.1
NCBI GenBank Nucleotide #	NM_007126.3
UniProt Accession #	P55072; Q0V924; Q2TAI5; Q969G7; Q9UCD5; B2R5T8
Molecular Weight	89,322 Da
NCBI Official Full Name	transitional endoplasmic reticulum ATPase
NCBI Official Synonym Full Names	valosin containing protein
NCBI Official Symbol	VCP
NCBI Official Synonym Symbols	p97; TERA; ALS14; CMT2Y; IBMPFD; HEL-220; IBMPFD1; HEL-S-70
NCBI Protein Information	transitional endoplasmic reticulum ATPase
UniProt Protein Name	Transitional endoplasmic reticulum ATPase
UniProt Gene Name	VCP
UniProt Synonym Gene Names	TER ATPase; VCP
UniProt Entry Name	TERA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/vcp-antibody-western-blot-immunohistochemistry-elisa/11662>