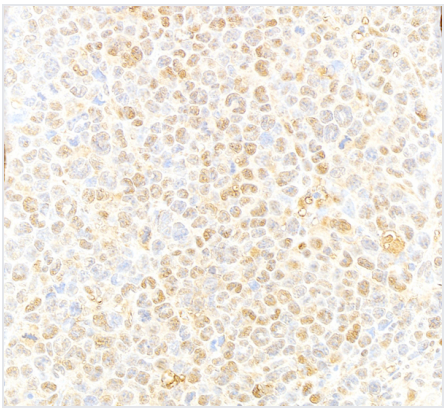
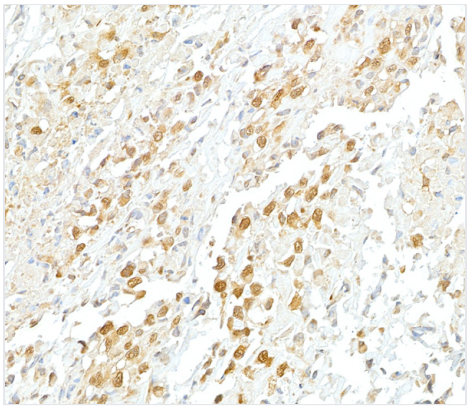
VCP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

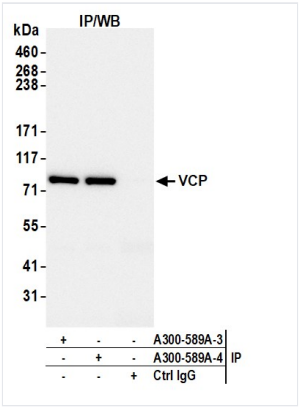
Product Name	VCP, Polyclonal Antibody
Full Product Name	Rabbit anti-VCP Antibody, Affinity Purified
Product Gene Name	anti-VCP antibody
Product Synonym Names	p97; VCP; Valosin-containing protein; transitional endoplasmic reticulum ATPase; CDC48; 15S Mg(2+)-ATPase p97 subunit; TERA; TER ATPase; Transitional endoplasmic reticulum ATPase; valosin containing protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	200ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	89,322 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (35056065..35072739, complement). Location: 9p13.3
OMIM	167320
3D Structure	ModBase 3D Structure for P55072
Predicted Reactivity	Rat, Bovine, Pig
Immunogen	Between 756 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-VCP antibody	Primary Antibodies
Applications Tested/Suitable for anti-VCP antibody	Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-VCP antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate IHC: 1:500 to 1:2000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-VCP antibody	Valosin-containing protein (VCP) is a multifunctional protein that is proposed to be involved in vesicle transport and fusion for protein trafficking, 26S proteasome function in ubiquitin-based degradation pathways, and the assembly of peroxisomes. Mutations in the human VCP gene have been associated with diseases such as inclusion body myopathy, Paget disease of the bone, and frontotemporal dementia (IBMPFD). VCP can inhibit apoptosis and may play a role in tumorigenesis.
Other Notes	Small volumes of anti-VCP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VCP purchase	MBS3901145 is an antibody targeting VCP. Also known as Rabbit anti-VCP Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



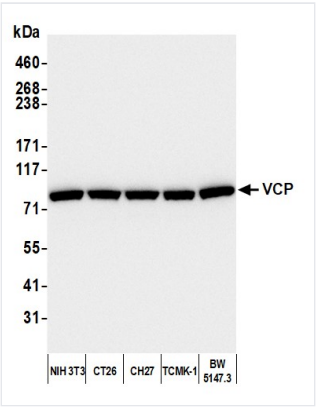
Immunohistochemistry (IHC) of anti-VCP antibody
Detection of mouse VCP by immunohistochemistry. Sample: FFPE section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti- VCP (Cat. No. MBS3901145 Lot4) used at a dilution of 1:2000 (0.2ug/ml). Detection: DAB



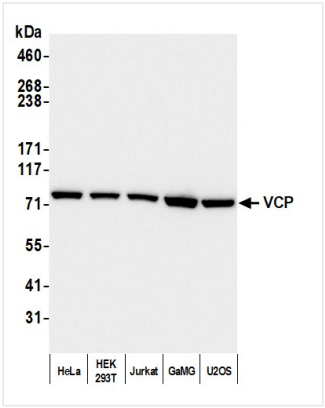
Immunohistochemistry (IHC) of anti-VCP antibody
Detection of human VCP by immunohistochemistry. Sample: FFPE section of human osteosarcoma. Antibody: Affinity purified rabbit anti- VCP (Cat. No. MBS3901145 Lot4) used at a dilution of 1:2000 (0.2ug/ml). Detection: DAB



Immunoprecipitation (IP) of anti-VCP antibody
Detection of human VCP by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 5% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-VCP antibody (MBS3901145 lot 4) used for IP at 6 ug per reaction. VCP was also immunoprecipitated by a previous lot of this antibody (MBS3901145 lot 3). For blotting immunoprecipitated VCP, MBS3901145 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



Western Blot (WB) of anti-VCP antibody
Detection of mouse VCP by western blot. Samples: Whole cell lysate (10 ug) from NIH 3T3, CT26, CH27, TCMK-1, and BW5147.3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-VCP antibody (MBS3901145 lot 4) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot (WB) of anti-VCP antibody
Detection of human VCP by western blot. Samples: Whole cell lysate (10 ug) from HeLa, HEK293T, Jurkat, GaMG, and U2OS cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-VCP antibody (MBS3901145 lot 4) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VCP. It may not necessarily be applicable to this product.

NCBI GI #	6005942

NCBI GeneID	7415
NCBI Accession #	NP_009057.1
UniProt Primary Accession #	P55072
UniProt Secondary Accession #	Q0V924; Q2TAI5; Q969G7; Q9UCD5; B2R5T8
UniProt Related Accession #	P55072
GenBank Nucleotide #	NM_007126.3
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; IBMPFD
UniProt Protein Name	Transitional endoplasmic reticulum ATPase
UniProt Synonym Protein Names	15S Mg(2+)-ATPase p97 subunit; Valosin-containing protein
Protein Family	Transitional endoplasmic reticulum ATPase
UniProt Gene Name	VCP
UniProt Synonym Gene Names	TER ATPase; VCP
UniProt Entry Name	TERA_HUMAN
NCBI Protein Information	transitional endoplasmic reticulum ATPase; TER ATPase; yeast Cdc48p homolog; valosin-containing protein; 15S Mg(2+)-ATPase p97 subunit
NCBI Summary for VCP	The protein encoded by this gene is a member of a family that includes putative ATP-binding proteins involved in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. This protein, as a structural protein, is associated with clathrin, and heat-shock protein Hsc70, to form a complex. It has been implicated in a number of cellular events that are regulated during mitosis, including homotypic membrane fusion, spindle pole body function, and ubiquitin-dependent protein degradation. [provided by RefSeq, Jul 2008]

UniProt Comments for VCP	VCP: valosin-containing protein (VCP) is a member of a family that includes putative ATP-binding proteins involved in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. VCP, as a structural protein, is associated with clathrin, and heat-shock protein Hsc70, to form a complex. Necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. Involved in the formation of the nuclear envelope and of the transitional endoplasmic reticulum (tER). Regulates NFKappaB pathway, which is important for metastasis of osteosarcoma. Tyrosine phosphorylation regulates its cell cycle-dependent nuclear localization. Protein type: Chaperone; DNA repair, damage; Endoplasmic reticulum; Hydrolase; EC 3.6.4.6 Chromosomal Location of Human Ortholog: 9p13.3 Cellular Component: proteasome complex; nucleoplasm; endoplasmic reticulum membrane; intracellular membrane-bound organelle; perinuclear region of cytoplasm; endoplasmic reticulum; cytoplasm; lipid particle; cytosol; nucleus Molecular Function: protein domain specific binding; identical protein binding; protein binding; ATPase activity; protein complex binding; ADP binding; polyubiquitin binding; protein phosphatase binding; lipid binding; ATP binding; receptor binding Biological Process: caspase activation; proteasomal ubiquitin-dependent protein catabolic process; ER to Golgi vesicle-mediated transport; ER-associated protein catabolic process; unfolded protein response; protein ubiquitination; DNA repair; retrograde protein transport, ER to cytosol; regulation of apoptosis; bypass DNA synthesis; establishment of protein localization; positive regulation of protein complex assembly; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; double-strand break repair; positive regulation of protein catabolic process; protein amino acid N-linked glycosylation via asparagine; response to DNA damage stimulus; protein homooligomerization Disease: Inclusion Body Myopathy With Early-onset Paget Disease With Or Without Frontotemporal Dementia 1; Amyotrophic Lateral Sclerosis 14, With Or Without Frontotemporal Dementia
Research Articles on VCP	**1.** Mitotic phosphorylation of VCIP135 blocks p97ATPase-mediated Golgi membrane fusion
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