

Rabbit VCP Antibody | anti-VCP antibody

VCP Antibody

CATALOG # AAA266865	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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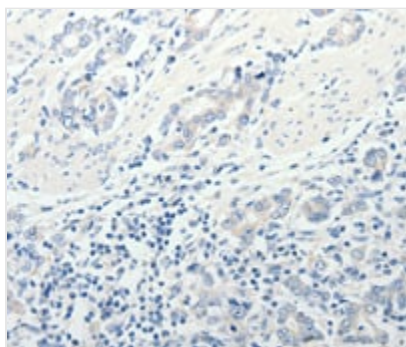
PRODUCT SYNONYMS

VCP; VCP Antibody; IBMPFD; MGC131997; MGC148092; MGC8560; TERA; p97; anti-VCP antibody

PRODUCT SPECIFICATIONS

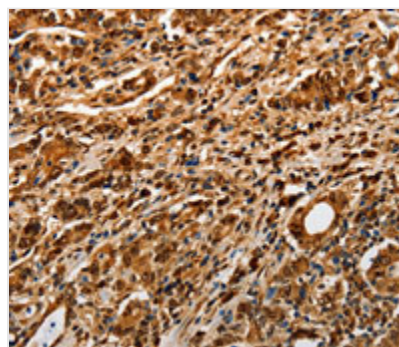
Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Sequence Length	806
Applicable Applications for anti-VCP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human VCP
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze/thaw cycles.

IMAGES

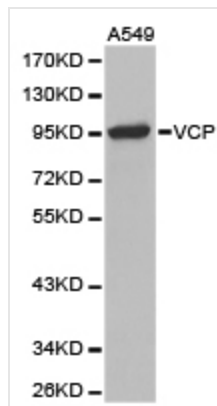


IHC (Immunohistochemisry)

Immunohistochemistry of paraffin-embedded human gastric cancer tissue using VCP antibody.



IHC (Immunohiostchemistry)



WB (Western Blot)
Western blot analysis of extracts of A549 cellline, using VCP antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-VCP antibody	Valosin-containing protein (VCP) is a highly conserved and abundant 97 kDa protein that belongs to the AAA (ATPase associated with a variety of cellular activities) family of proteins. VCP assembles as a homo-hexamer, forming a ring with a channel at its center (1, 2, 3). VCP homo-hexamers associate with a variety of protein cofactors to form many distinct protein complexes, which act as chaperones to unfold proteins and transport them to specific cellular compartments or to the proteasome (4). These protein complexes participate in many cellular functions, including vesicle transport and fusion, fragmentation and reassembly of the golgi stacks during mitosis, nuclear envelope formation and spindle disassembly following mitosis, cell cycle regulation, DNA damage repair, apoptosis, B-and T-cell activation, NF-kappaB-mediated transcriptional regulation, endoplasmic reticulum (ER)-associated degradation and protein degradation (4). VCP appears to localize mainly to the endoplasmic reticulum; however, tyrosine phosphorylation is associated with relocalization to the centrosome during mitosis (5). In addition, following cellular exposure to ionizing radiation, VCP is phosphorylated at Ser784 in an ATM-dependent manner and accumulates in the nucleus at sites of double-stranded DNA breaks (DSBs) (6). Exposure to other types of DNA damaging agents such as UV light, bleomycin or doxorubicin results in phosphorylation of VCP by ATR and DNA-PK in an ATM-independent manner (6).
Product Categories/Family for anti-VCP antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
References	1. DeLaBarre, B. and Brunger, A.T. (2003) Nat. Struct. Biol. 10, 856-863. 2. Huyton, T. et al. (2003) J. Struct. Biol. 144, 337-348. 3. Dreveny, I. et al. (2004) EMBO J. 23, 1030-1039. 4. Wang, Q. et al. (2004) J. Struct. Biol. 146, 44-57. 5. Madeo, F. et al. (1998) Mol. Biol. Cell 9, 131-141. 6. Livingstone, M. et al. (2005) Cancer Res. 65, 7533-7540.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6005942
NCBI GeneID	7415
NCBI Accession #	NP_009057.1
NCBI GenBank Nucleotide #	NM_007126.4
UniProt Accession #	P55072; Q0V924; Q2TAI5; Q969G7; Q9UCD5; B2R5T8
Molecular Weight	71kDa
NCBI Official Full Name	transitional endoplasmic reticulum ATPase isoform 1
NCBI Official Synonym Full Names	valosin containing protein
NCBI Official Symbol	VCP
NCBI Official Synonym Symbols	p97; TERA; CDC48
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

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://stage.aaabiotech.com/rabbit-human-mouse-rat-antibody/vcp/266865>