



Anti-VCP monoclonal antibody, clone 6 (DCABH-447)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to VCP
Antigen Description	Necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. Involved in the formation of the transitional endoplasmic reticulum (tER). The transfer of membranes from the endoplasmic reticulum to the Golgi apparatus occurs via 50-70 nm transition vesicles which derive from part-rough, part-smooth transitional elements of the endoplasmic reticulum (tER). Vesicle budding from the tER is an ATP-dependent process. The ternary complex containing UFD1L, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1L-VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope (By similarity). Regulates E3 ubiquitin-protein ligase activity of RNF19A.
Immunogen	Synthetic peptide corresponding to Human VCP aa 792-806.Sequence: GGSVYTEDNDDDLYG
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Mouse, Rat, Sheep, Cow, Human
Clone	6
Conjugate	Unconjugated
Applications	IHC-P, IHC-Fr, Flow Cyt, ELISA, ICC, IP, ICC/IF, WB
Positive Control	Whole cell lysate from cultured human B cells.

Format	Liquid
Size	50 µl
Buffer	Preservative: 0.05% Sodium azide
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Storage	Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	VCP valosin containing protein [Homo sapiens]
Official Symbol	VCP
Synonyms	VCP; valosin containing protein; transitional endoplasmic reticulum ATPase; IBMPFD; p97; TER ATPase; yeast Cdc48p homolog; valosin-containing protein; 15S Mg(2+)-ATPase p97 subunit; TERA; ALS14; MGC8560; MGC131997; MGC148092;
Entrez Gene ID	7415
Protein Refseq	NP_009057
UniProt ID	P55072
Chromosome Location	9p13
Pathway	DNA Repair, organism-specific biosystem; Fanconi Anemia pathway, organism-specific biosystem; HRD1/SEL1 ERAD complex, organism-specific biosystem; HRD1/SEL1 ERAD complex, conserved biosystem; IL-9 Signaling Pathway, organism-specific biosystem; Legionellosis, organism-specific biosystem; Legionellosis, conserved biosystem;
Function	ATP binding; ATPase activity; hydrolase activity; identical protein binding; lipid binding; nucleotide binding; polyubiquitin binding; protein binding; protein domain specific binding; protein phosphatase binding; receptor binding;