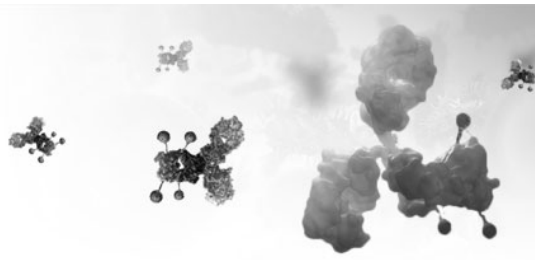

Anti-VCP monoclonal antibody, clone 4F9ED22 (DCABH-286)

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	Sucrose gradient fraction 4 from Human liver mitochondria.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse, Rat, Human
Clone	4F9ED22
Purity	>95% by SDS-PAGE
Purification	The purity of This antibody is near homogeneity, as judged by SDS-PAGE. The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Conjugate	Unconjugated

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Applications	In-Cell ELISA, ICC/IF, Flow Cyt, IP
Positive Control	ICC/IF: Human HDFn cells IP: Human, Rat, and Mouse liver samples; HepG2 cultured cell lysate Flow Cyt: HL-60 cells
Format	Liquid
Size	100 µg
Buffer	Preservative: 0.02% Sodium azide
Preservative	0.02% Sodium Azide
Storage	Store at +4°C. Do not freeze.

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;

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