SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-VCP antibody

Catalog Number: SL1443R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	VCP
Immunogen:	KLH conjugated synthetic peptide derived from human VCP: 701-806/806
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Cow,Horse)
Predicted MW.:	97kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	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] **Function:** 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

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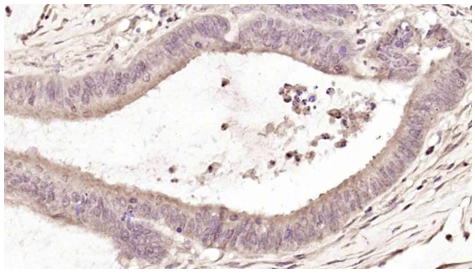
	endoplasmic reticulum (tER). Vesicle budding from the tER is an ATP-dependent process. The ternary complex containing UFD1L, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1L-VCP 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. **Subcellular Location:** Cytoplasm > cytosol. Nucleus. Present in the neuronal hyaline inclusion bodies specifically found in motor neurons from amyotrophic lateral sclerosis patients. Present in the Lewy bodies specifically found in neurons from Parkinson disease patients. **Post-translational modifications:** Phosphorylated by tyrosine kinases in response to T-cell antigen receptor activation. Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated. DISEASE: Defects in VCP are the cause of inclusion body myopathy with early-onset Paget disease and frontotemporal dementia (IBMPFD) [MIM:167320]; also known as muscular dystrophy, limb-girdle, with Paget disease of bone or pagetoid amyotrophic lateral sclerosis or pagetoid neuroskeletal syndrome or lower motor neuron degeneration with Paget-like bone disease. IBMPFD features adult-onset proximal and distal muscle weakness (clinically resembling limb girdle muscular dystrophy), early-onset Paget disease of bone in most cases and premature frontotemporal dementia. **Similarity:** Belongs to the AAA ATPase family. **Database links:** **Entrez Gene:** 7415 Human **Entrez Gene:** 269523 Mouse **Entrez Gene:** 116643 Rat Omim: 601023 Human **SwissProt:** P55072 Human **SwissProt:** Q01853 Mouse **SwissProt:** P46462 Rat **Unigene:** 529782 Human **Unigene:** 245976 Mouse **Unigene:** 98891 Rat Valosin-containing protein (VCP, i.e.p97),is a widely present membrane-boundglycoprotein,has extensive functions in cell activity, characterized by acting as a molecular chaperone-like factor that plays an important role in endoplasmic reticulum-associated protein degradation and cell cycle

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	regulation，VCPThe protein can bind to heparin on the cell surface，and thus play a role in protecting cells。 Currently, the expression level of VCP and its relationship with digestive system malignant tumors such as esophageal cancer, gastric cancer, colorectal cancer, liver cancer, and pancreatic cancer are research hotspots.

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VCP) Polyclonal Antibody, Unconjugated (SL1443R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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