abcam

Product datasheet

Anti-VCP antibody ab155146

1 References 5 Images

Ov	erv	view	

Product name	Anti-VCP antibody
Description	Rabbit polyclonal to VCP
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 540-806 of Human VCP.
Positive control	A431, H1299, mouse brain and rat brain lysates; HeLa cells; Human breast carcinoma tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
lsotype	lgG

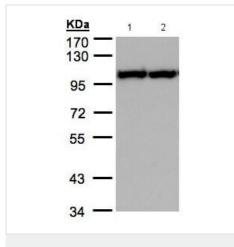
Applications

The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab155146 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 89 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

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 transitior
	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.
Involvement in 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.
Sequence similarities	Belongs to the AAA ATPase family.
Post-translational	Phosphorylated by tyrosine kinases in response to T-cell antigen receptor activation (By
modifications	similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.
	ISGylated.
Cellular localization	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.



All lanes : Anti-VCP antibody (ab155146) at 1/2000 dilution

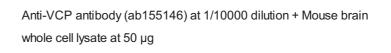
Lane 1 : A431 whole cell lysate Lane 2 : H1299 whole cell lysate

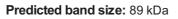
Lysates/proteins at 30 µg per lane.

Predicted band size: 89 kDa

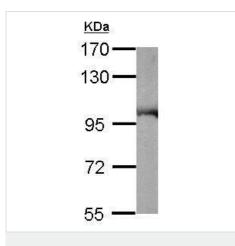
Western blot - Anti-VCP antibody (ab155146)

7.5% SDS PAGE

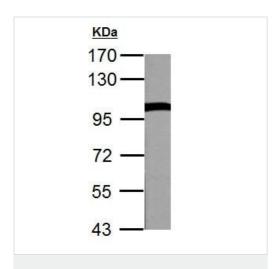




7.5% SDS PAGE



Western blot - Anti-VCP antibody (ab155146)

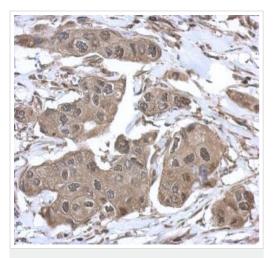


Anti-VCP antibody (ab155146) at 1/10000 dilution + Rat brain lysate at 50 μg

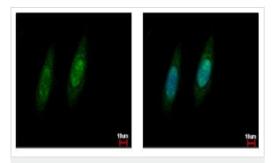
Predicted band size: 89 kDa

7.5 % SDS-PAGE

Western blot - Anti-VCP antibody (ab155146)



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-VCP antibody (ab155146) Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling VCP with ab155146 at 1/500 dilution.



Immunofluorescent analysis of methanol-fixed HeLa cells labeling VCP with ab155146 at 1/500 dilution. Right panel co-stained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-VCP antibody (ab155146)

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