

Product datasheet

Anti-VCP antibody [3E8DC11] ab110308

★★★★☆ 3 Abreviews 1 References 画像数 3

製品の概要

製品名	Anti-VCP antibody [3E8DC11]
製品の詳細	Mouse monoclonal [3E8DC11] to VCP
アプリケーション	適用あり: In-Cell ELISA, ICC/IF, Flow Cyt, IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Sucrose gradient fraction 4 from Human liver mitochondria.
ポジティブ・コントロール	ICC/IF: Human HDFn cells IP: Human, Rat, and Mouse liver samples; HepG2 cultured cell lysate Flow Cyt: HL-60 cells
特記事項	This antibody clone is manufactured by Abcam. Product was previously marketed under the MitoSciences sub-brand.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	Preservative: 0.02% Sodium azide
精製度	>95% by SDS-PAGE
特記事項 (精製)	The purity of ab110308 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.
ポリ/モノ	モノクローナル
クローン名	3E8DC11
アイソタイプ	IgG1
軽鎖の種類	kappa

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab110308** in the following tested applications.

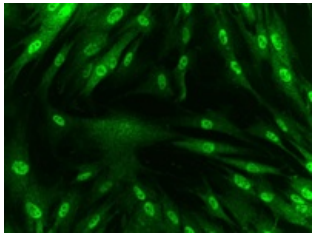
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
In-Cell ELISA		Use a concentration of 2 µg/ml. (0.2 µg/well)
ICC/IF	★☆☆☆☆	Use a concentration of 2 - 20 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. ab170190 -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IP	★★★★★	Use at an assay dependent concentration.

ターゲット情報

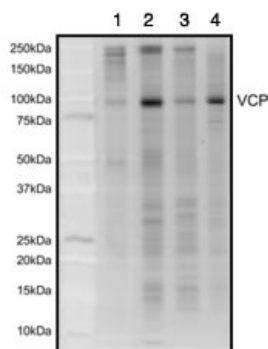
機能	Necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. Involved in the formation of the transitional endoplasmic reticulum (tER). The transfer of membranes from the endoplasmic reticulum to the Golgi apparatus occurs via 50-70 nm transition vesicles 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.
関連疾患	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.
配列類似性	Belongs to the AAA ATPase family.
翻訳後修飾	Phosphorylated by tyrosine kinases in response to T-cell antigen receptor activation (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
細胞内局在	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.

画像



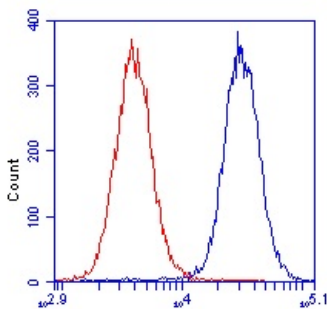
Immunocytochemistry/ Immunofluorescence - VCP antibody [3E8DC11] (ab110308)

Immunocytochemistry image of ab110308-stained Human HDFn cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15 min). The cells were incubated with ab110308 at 2 µg/ml for 2 hours at room temperature or overnight at 4°C. The secondary antibody was (green) Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1 hour. 10% Goat serum was used as the blocking agent for all blocking steps. Target protein locates mainly in nucleus and cytoplasm.



Immunoprecipitation - VCP antibody [3E8DC11] (ab110308)

ab110308 pulls down the 89 kDa VCP protein in Human (lane 1), Rat (lane 2), and Mouse (lane 3) liver samples and Human HepG2 cultured cell lysate (lane 4). The identity of this protein was confirmed by mass spectrometry. This gel was stained with sypro ruby gel stain.



Flow Cytometry - VCP antibody [3E8DC11] (ab110308)

HL-60 cells were stained with 1 µg/mL ab110308 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.

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