abcam

Product datasheet

Anti-RENT1/hUPF1 antibody ab43408

画像数 1

製品の概要

製品名	Anti-RENT1/hUPF1 antibody
製品の詳細	Mouse polyclonal to RENT1/hUPF1
由来種	Mouse
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Human
免疫原	Vector coding for a partial recombinant fusion protein, corresponding to amino acids 989-1088 of Human RENT1/hUPF1. Target sequence used to make the antibody: MPPMPPPDAG YFGQANGPAA GRGTPKGKTG RGGRQKNRFG LPGPSQTNLP NSQASQDVAS QPFSQGALTQ GYISMSQPSQ MSQPGLSQPE LSQDSYLGDE, Run BLAST with ExPASy Run BLAST with NCBI
特記事項	This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang et al. PubMed: 1545867; Chambers and Johnston PubMed 12910245; Barry and Johnston PubMed: 9234514). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an E.coli lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: None Constituents: 50% Glycerol, Whole serum
精製度	Whole antiserum
一次抗体 備考	This antibody was raised by a genetic immunization technique. Genetic immunization can be

	used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang et al. PubMed: 1545867; Chambers and Johnston PubMed 12910245; Barry and Johnston PubMed: 9234514). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an E.coli lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab43408** in the following tested applications.

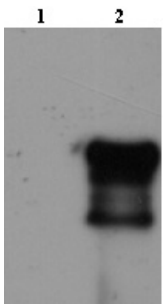
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 134 kDa. This antibody has been tested in Western blot against an *E.coli* lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

ターゲット情報

機能	Plays a role in replication-dependent histone mRNA degradation at the end of phase S. Part of a post-splicing multiprotein complex. Involved in nonsense-mediated decay (NMD) as part of the SMG1C complex, a mRNA surveillance complex that recognizes and degrades mRNAs containing premature translation termination codons (PTCs). The complex probably acts by associating with ribosomes during tranlation termination on mRNPs. If an exon junction complex (EJC) is located 50-55 or more nucleotides downstream from the termination codon, RENT1 is phosphorylated by SMG1, triggering nonsense-mediated decay (NMD). Essential for embryonic viability.
組織特異性	Ubiquitous.
配列類似性	Belongs to the DNA2/NAM7 helicase family. Contains 1 C2H2-type zinc finger.
ドメイン	The [ST]-Q motif constitutes a recognition sequence for kinases from the PI3/PI4-kinase family.
翻訳後修飾	Phosphorylated by SMG1; required for formation of mRNA surveillance complexes. Phosphorylated upon DNA damage, probably by ATM or ATR.
細胞内局在	Cytoplasm. Cytoplasm > P-body. Hyperphosphorylated form is targeted to the P-body, while unphosphorylated protein is distributed throughout the cytoplasm.

画像



Western blot - RENT1/hUPF1 antibody (ab43408)

All lanes : Anti-RENT1/hUPF1 antibody (ab43408) at 1/1000 dilution

Lane 1 : a total protein extract from E coli with 50ng to 100 ng of a Tagged fusion protein of an irrelevant antigen
Lane 2 : a total protein extract from E coli with 50ng to 500ng of the antigen (Tagged fusion protein)

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Rabbit anti-mouse IgG + IgM, (H+L) HRP conjugated, at 1/5000 dilution

Predicted band size: 134 kDa

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