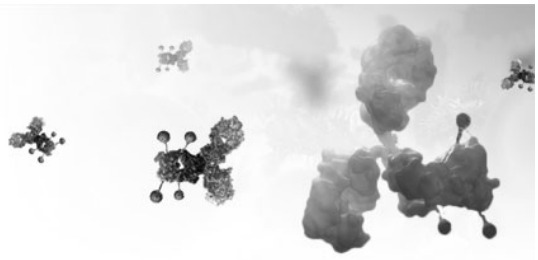

Anti-UPF1 monoclonal antibody, clone FQS5792 (DCABH-202)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit monoclonal to RENT1/hUPF1
Antigen Description	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.
Immunogen	Synthetic peptide, corresponding to residues in human RENT1/hUPF1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Clone	FQS5792
Purity	Tissue culture supernatant
Conjugate	Unconjugated
Applications	WB, IP, IHC-P, Flow Cyt, ICC/IF
Positive Control	HuT-78, Raji, SH-SY5Y and HeLa cell lysates, Human kidney tissue, Human transitional cell carcinoma tissue, HeLa cells.
Format	Liquid

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Size	100 µl
Buffer	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Preservative	0.1% Sodium Azide
Storage	Store at -20°C. Stable for 12 months at -20°C

GENE INFORMATION

Gene Name	UPF1 UPF1 regulator of nonsense transcripts homolog (yeast) [Homo sapiens]
Official Symbol	UPF1
Synonyms	UPF1; UPF1 regulator of nonsense transcripts homolog (yeast); regulator of nonsense transcripts 1 , RENT1; regulator of nonsense transcripts 1; HUPF1; KIAA0221; NORF1; pNORF1; smg 2; smg 2 homolog; nonsense mediated mRNA decay factor (C. elegans); UP Fram
Entrez Gene ID	5976
Protein Refseq	NP_002902
UniProt ID	A0A024R7L8
Chromosome Location	19p13.2-p13.11
Pathway	Exon junction complex (EJC), organism-specific biosystem; Gene Expression, organism-specific biosystem; Nonsense Mediated Decay Enhanced by the Exon Junction Complex, organism-specific biosystem; Nonsense Mediated Decay Independent of the Exon Junction Complex, organism-specific biosystem; Nonsense-Mediated Decay, organism-specific biosystem; RNA transport, organism-specific biosystem; RNA transport, conserved biosystem;
Function	ATP binding; ATP-dependent RNA helicase activity; DNA binding; RNA binding; chromatin binding; helicase activity; hydrolase activity; metal ion binding; nucleotide binding; protein binding; zinc ion binding;

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