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UPF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10692c

Specification

UPF2 Antibody (Center) - Product Information

Application	**FC, WB,E**
Primary Accession	Q9HAU5
Other Accession	NP_056357.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**147810**
Antigen Region	**630-656**

UPF2 Antibody (Center) - Additional Information

Gene ID 26019

Other Names
Regulator of nonsense transcripts 2, Nonsense mRNA reducing factor 2, Up-frameshift suppressor 2 homolog, hUpf2, UPF2, KIAA1408, RENT2

Target/Specificity
This UPF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 630-656 amino acids from the Central region of human UPF2.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
UPF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

UPF2 Antibody (Center) - Protein Information

Name UPF2 (HGNC:17854)

Function Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons by associating with the nuclear exon junction complex (EJC). Recruited by UPF3B associated with the EJC core at the cytoplasmic side of the nuclear envelope and the subsequent formation of an UPF1-UPF2-UPF3 surveillance complex (including UPF1 bound to release factors at the stalled ribosome) is believed to activate NMD. In cooperation with UPF3B stimulates both ATPase and RNA helicase activities of UPF1. Binds spliced mRNA.

Cellular Location
Cytoplasm, perinuclear region. Cytoplasm {ECO:0000250|UniProtKB:A2AT37}

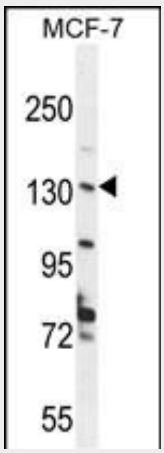
Tissue Location
Ubiquitous..

UPF2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UPF2 Antibody (Center) - Images



UPF2 Antibody (Center) (Cat. #AP10692c) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the UPF2 antibody detected the UPF2 protein (arrow).

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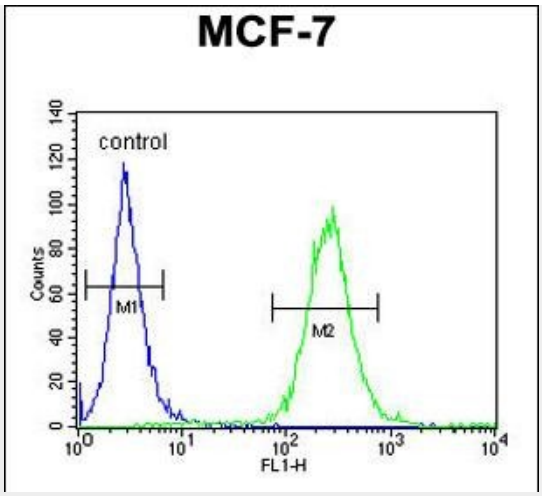

UPF2 Antibody (Center) (Cat. #AP10692c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

UPF2 Antibody (Center) - Background

UPF2 is a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located in the perinuclear area. It interacts with translation release factors and the proteins that are functional homologs of yeast Upf1p and Upf3p.

UPF2 Antibody (Center) - References

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Cronin, S., et al. Eur. J. Hum. Genet. 17(2):213-218(2009)
Woeller, C.F., et al. EMBO Rep. 9(5):446-451(2008)
Chamieh, H., et al. Nat. Struct. Mol. Biol. 15(1):85-93(2008)
Singh, G., et al. Mol. Cell 27(5):780-792(2007)