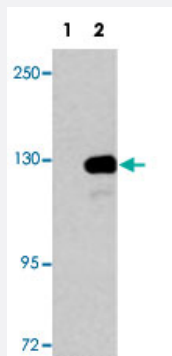


# UPF1 polyclonal antibody

Catalog # PAB3694      Size 400 uL

## Applications



### Western Blot (Transfected lysate)

Western blot analysis of UPF1 (arrow) using UPF1 polyclonal antibody (Cat # PAB3694).

293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the UPF1 gene (Lane 2).

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of UPF1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to amino acids 7-37 of human UPF1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Ammonium sulfate precipitation
<b>Recommend Usage</b>	ELISA Western Blot (1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide).
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western blot analysis of UPF1 (arrow) using UPF1 polyclonal antibody (Cat # PAB3694).

293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the UPF1 gene (Lane 2).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — UPF1

Entrez GeneID [5976](#)

Protein Accession# [NP\\_002902:Q92900](#)

Gene Name UPF1

Gene Alias FLJ43809, FLJ46894, HUPF1, KIAA0221, NORF1, RENT1, pNORF1

Gene Description UPF1 regulator of nonsense transcripts homolog (yeast)

Omim ID [601430](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes 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 only in the cytoplasm. When translation ends, it interacts with the protein that is a functional homolog of yeast Upf2p to trigger mRNA decapping. Use of multiple polyadenylation sites has been noted for this gene. [provided by RefSeq]

**Other Designations** UP Frameshift 1|delta helicase|nonsense mRNA reducing factor 1|regulator of nonsense transcripts 1|up-frameshift mutation 1 homolog|yeast Upf1p homolog

## Publication Reference

- [Phosphorylation of hUPF1 induces formation of mRNA surveillance complexes containing hSMG-5 and hSMG-7.](#)

Ohnishi T, Yamashita A, Kashima I, Schell T, Anders KR, Grimson A, Hachiya T, Hentze MW, Anderson P, Ohno S.  
Molecular Cell 2003 Nov; 12(5):1187.

Application: WB, Human, HeLa cells

- [Identification of a human decapping complex associated with hUpf proteins in nonsense-mediated decay.](#)

Lykke-Andersen J.  
Molecular and Cellular Biology 2002 Dec; 22(23):8114.

Application: WB-Tr, Human, HEK 293 cells

- [Identification of delta helicase as the bovine homolog of HUPF1: demonstration of an interaction with the third subunit of DNA polymerase delta.](#)

Carastro LM, Tan CK, Selg M, Jack HM, So AG, Downey KM.  
Nucleic Acids Research 2002 May; 30(10):2232.

Application: WB-Ce, Human, HeLa cells