

## UPF1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**123kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human UPF1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bj

**Synonym:**

FLJ43809; FLJ46894; HUPF1; KIAA0221; NORF1; RENT1; pNORF1;

**Catalog #:**A1521

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**5976

**Isotype:**IgG

**Swiss Prot:**Q92900

**Purity:**Affinity purification

For research use only.

**Background:**

Upf1 was identified as an active component in nonsense-mediated decay (NMD), an mRNA surveillance mechanism in eukaryotic cells that degrades mRNAs containing premature termination codons (1). Upf1 was found to be an ATP-dependent RNA helicase in the cytoplasm (2) and was later shown to be a component of cytoplasmic P-bodies (3). Upf1 phosphorylation mediates the repression of translation that accompanies NMD, allowing mRNA accessibility to the NMD machinery (4). Two other active components of NMD, Upf2 and Upf3, were also identified and described as having perinuclear and nucleocytoplasmic localization, respectively (5).

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