

Store at
-20C
#12040**UPF1 (D15G6) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, eCLIP	H M R Mk	Endogenous	140	Rabbit IgG	#Q92900	5976

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
eCLIP

Dilution

1:1000
1:50
1:100 - 1:400
1:200

For more information about the RBP-eCLIP service please visit Eclipsebio.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

UPF1 (D15G6) Rabbit mAb recognizes endogenous levels of total UPF1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human UPF1 protein.

Background

UPF1 was identified as an active component in nonsense-mediated mRNA 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).

Background References

1. Leeds, P. et al. (1991) *Genes Dev* 5, 2303-14.
2. Weng, Y. et al. (1996) *Mol Cell Biol* 16, 5477-90.
3. Bruno, I. and Wilkinson, M.F. (2006) *Cell* 125, 1036-8.
4. Isken, O. et al. (2008) *Cell* 133, 314-27.
5. Lykke-Andersen, J. et al. (2000) *Cell* 103, 1121-31.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)
eCLIP: eCLIP

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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