

#14154 Store at -20°C

PABP2 (D6F3Q) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, eCLIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q86U42	Entrez-Gene Id: 8106
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Product Usage Information**Application**Western Blotting
Immunoprecipitation
eCLIP**Dilution**1:1000
1:100
1:200

For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.

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

PABP2 (D6F3Q) Rabbit mAb recognizes endogenous levels of total PABP2 protein.

Species predicted to react based on 100% sequence homology:

Bovine, Rabbit

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PABP2 protein.

Background

Poly(A)-binding protein 2 (PABP2, PAPBN1) is a nuclear RNA-binding protein involved in the post-transcriptional processing of RNA molecules (1). The PABP2 protein enhances RNA polyadenylation by stimulating poly(A) polymerase (PAP) activity and facilitating the interaction between PAP and the cleavage and specificity factor (CPSF) to regulate poly(A) tail length (2-4). The role that PABP2 plays in regulating poly(A) tail formation and site selection may be important in influencing the length of the 3' untranslated region (UTR), which can alter transcript stability and translation by RNA binding proteins and miRNAs (1,5). Mutations in the corresponding *PABPN1* gene can result in oculopharyngeal muscular dystrophy (OPMD), an autosomal dominant muscle disorder characterized by weakness in proximal limb muscles, ptosis, and dysphagia (1,6).

Background References

1. Banerjee, A. et al. (2013) *FEBS J* 280, 4230-50.
2. Wahle, E. (1991) *Cell* 66, 759-68.
3. Kerwitz, Y. et al. (2003) *EMBO J* 22, 3705-14.
4. Kühn, U. et al. (2009) *J Biol Chem* 284, 22803-14.
5. Di Giammartino, D.C. et al. (2011) *Mol Cell* 43, 853-66.
6. Brais, B. et al. (1998) *Nat Genet* 18, 164-7.

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**WB:** Western Blotting **IP:** Immunoprecipitation **eCLIP:** eCLIP**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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