

#12844 Store at -20°C

**DNAJC2/MPP11 (D6B1E) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, eCLIP	H M R Mk	Endogenous	80	Rabbit IgG	#Q99543	27000

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation  
eCLIP**Dilution**1:1000  
1:50  
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**

DNAJC2/MPP11 (D6B1E) Rabbit mAb recognizes endogenous levels of total DNAJC2/MPP11 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DNAJC2/MPP11 protein.

**Background**

DnaJ/Hsp40 proteins are a conserved family of J-domain-containing chaperone proteins that assist in protein folding and stability through their interactions with Hsp70 chaperone proteins (reviewed in 1). DNAJC2, also known as MPP11 (M-phase phosphoprotein 11 protein) or ZRF1, is a component of the ribosome-associated complex (RAC). The RAC is localized to the cytoplasm, where it assists in maintaining appropriate folding of nascent polypeptides by stimulating the ATPase activity of Hsp70 chaperone proteins (2,3). In the nucleus, MPP11 is involved in the activation of transcription through mediation of the switch from polycomb-repressed to active chromatin (4). Previous studies have shown MPP11 is overexpressed in leukemia and head and neck cancer, leading researchers to suggest MPP11 may be a potential therapeutic target (5-7). MPP11 is phosphorylated at serine 47 by S6 kinase, which regulates senescence in fibroblast cells (8).

**Background References**

1. Qiu, X.B. et al. (2006) *Cell Mol Life Sci* 63, 2560-70.
2. Hundley, H.A. et al. (2005) *Science* 308, 1032-4.
3. Otto, H. et al. (2005) *Proc Natl Acad Sci U S A* 102, 10064-9.
4. Richly, H. et al. (2010) *Nature* 468, 1124-8.
5. Greiner, J. et al. (2003) *Int J Cancer* 106, 224-31.
6. Resto, V.A. et al. (2000) *Cancer Res* 60, 5529-35.
7. Tabarkiewicz, J. and Giannopoulos, K. (2010) *Transplant Proc* 42, 3293-6.
8. Barilari, M. et al. (2017) *EMBO J* 36, 736-750.

**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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