

# Phospho-DNAJC2/MPP11 (Ser47) Antibody



✓ 100 µl  
(10 western blots)

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New 01/13

**For Research Use Only. Not For Use In Diagnostic Procedures.**

**Entrez-Gene ID** #27000  
**Swiss-Prot Acc.** #Q99543

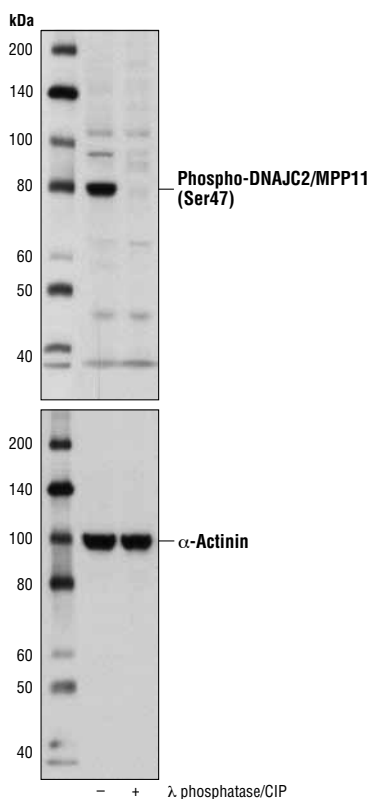
Applications W Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 80 kDa	Source Rabbit**
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**Background:** DnaJ/Hsp40 proteins are a conserved family of J-domain-containing chaperone proteins that assist in protein folding and stability through their interactions with Hsp70 chaperone proteins (reviewed in 1). DNAJC2, also known as MPP11 (M-phase phosphoprotein 11 protein), 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).

Phospho-DNAJC2/MPP11 (Ser47) Antibody is directed at a site that was identified at Cell Signaling Technology (CST) using PhosphoScan®, CST's LC-MS/MS platform for modification site discovery. Please visit PhosphoSitePlus®, CST's modification site knowledgebase, at [www.phospho-site.org](http://www.phospho-site.org) for more information.

**Specificity/Sensitivity:** Phospho-DNAJC2/MPP11 (Ser47) Antibody recognizes endogenous levels of DNAJC2/MPP11 protein only when phosphorylated at Ser47.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser47 of human and mouse DNAJC2/MPP11 protein. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of 293T cells, untreated (-) or treated (+) with  $\lambda$  phosphatase and calf intestinal phosphatase (CIP), using Phospho-DNAJC2/MPP11 (Ser47) Antibody (upper) or  $\alpha$ -Actinin (D6F6) XP® Rabbit mAb #6487 (lower).

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

**\*Species cross-reactivity is determined by western blot.**

**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

## Recommended Antibody Dilutions:

Western blotting 1:1000

**For product specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended complementary products.**

## 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.

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

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.