

**PPP4R2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18485c****Specification**

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**PPP4R2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9NY27](#)**PPP4R2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 151987**Other Names**

Serine/threonine-protein phosphatase 4 regulatory subunit 2, PPP4R2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PPP4R2 Antibody (Center) Blocking Peptide - Protein Information****Name** PPP4R2**Function**

Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers. Its interaction with the SMN complex leads to enhance the temporal localization of snRNPs, suggesting a role of PPP4C in maturation of spliceosomal snRNPs. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AX phosphorylated on 'Ser-140' (gamma-H2AX) generated during DNA replication and required for DNA double strand break repair. Mediates RPA2 dephosphorylation by recruiting PPP4C to RPA2 in a DNA damage-dependent manner. RPA2 dephosphorylation is required for the efficient RPA2-mediated recruitment of RAD51 to chromatin following double strand breaks, an essential step for DNA repair.

**Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus. Note=Ionizing radiation induces relocalization to nuclear foci and colocalization with RPA2

**Tissue Location**

Widely expressed..

## **PPP4R2 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **PPP4R2 Antibody (Center) Blocking Peptide - Images**

## **PPP4R2 Antibody (Center) Blocking Peptide - Background**

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## **PPP4R2 Antibody (Center) Blocking Peptide - References**

Lee, D.H., et al. Nat. Struct. Mol. Biol. 17(3):365-372(2010)Chen, G.I., et al. J. Biol. Chem. 283(43):29273-29284(2008)Chowdhury, D., et al. Mol. Cell 31(1):33-46(2008)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Gingras, A.C., et al. Mol. Cell Proteomics 4(11):1725-1740(2005)