

PPP4C Antibody (aa294-307)
Rabbit Polyclonal Antibody
Catalog # ALS11552**Specification**

PPP4C Antibody (aa294-307) - Product Information

Application	IHC
Primary Accession	P60510
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa

PPP4C Antibody (aa294-307) - Additional Information**Gene ID** 5531**Other Names**

Serine/threonine-protein phosphatase 4 catalytic subunit, PP4C, Pp4, 3.1.3.16, Protein phosphatase X, PP-X, PPP4C, PPP4, PPX

Target/Specificity

Amino acids 294 to 307 of PPP4C

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

PPP4C Antibody (aa294-307) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP4C Antibody (aa294-307) - Protein Information**Name** PPP4C**Synonyms** PPP4, PPX**Function**

Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. 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. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated

recruitment of RAD51 to chromatin.

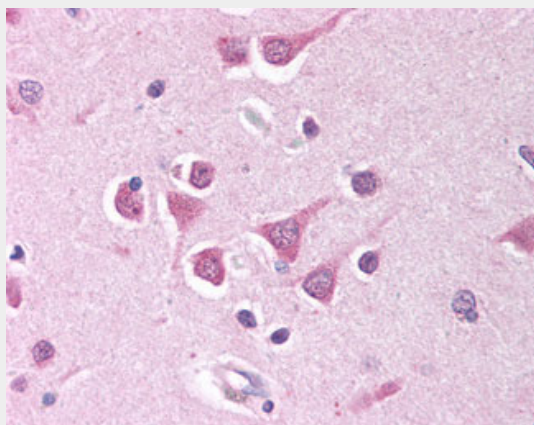
Cellular Location

Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

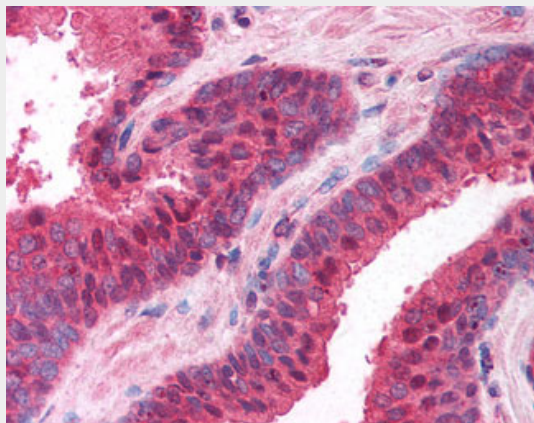
PPP4C Antibody (aa294-307) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP4C Antibody (aa294-307) - Images

Anti-PPP4C antibody IHC of human brain, cortex.



Anti-PPP4C antibody IHC of human prostate.

PPP4C Antibody (aa294-307) - Background

Protein phosphatase that is involved in many processes such as microtubule organization at

centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C- PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on Ser-140 (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to chromatin.

PPP4C Antibody (aa294-307) - References

Brewis N.D.,et al.Biochim. Biophys. Acta 1171:231-233(1992).
Cohen P.T.W.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Hu M.C.-T.,et al.J. Biol. Chem. 273:33561-33565(1998).
Zhou G.,et al.J. Biol. Chem. 277:6391-6398(2002).
Mourtada-Maarabouni M.,et al.Cell Death Differ. 10:1016-1024(2003).