

## ARG54007 anti-PPP4C antibody

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody recognizes PPP4C
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Target Name	PPP4C
Species	Human
Immunogen	Purified recombinant human Protein Phosphatase 4C protein fragments expressed in E.coli.
Conjugation	Un-conjugated
Alternate Names	PPP4; PPX; PP-X; Pp4; PPH3; EC 3.1.3.16; Serine/threonine-protein phosphatase 4 catalytic subunit; PP4; PP4C; Protein phosphatase X

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200
	IHC-P	Assay-dependent
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	34 kDa	

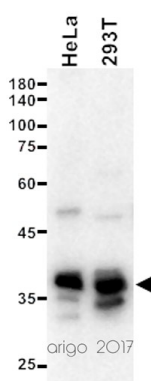
### Properties

Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	0.8 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

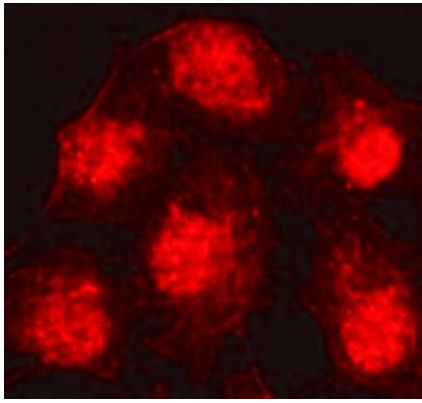
Database links	<a href="#">GeneID: 5531 Human</a> <a href="#">Swiss-port # P60510 Human</a>
Gene Symbol	PPP4C
Gene Full Name	protein phosphatase 4, catalytic subunit
Background	Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, 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 DSB repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity)
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 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. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	35 kDa
PTM	Methylation at the C-terminal Leu-307 is critical for interactions with regulatory subunits and functions in DNA repair.
Cellular Localization	Cytoplasm. Nucleus

## Images



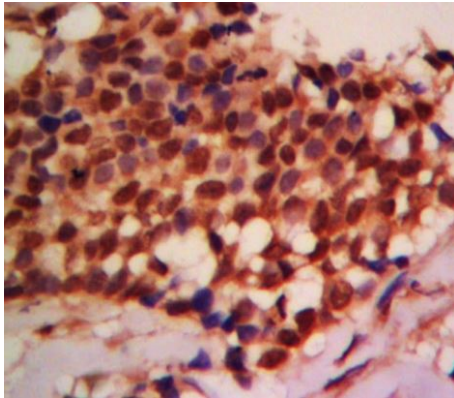
ARG54007 anti-PPP4C antibody WB image

Western blot: 20 µg of HeLa and 293T cell lysates stained with ARG54007 anti-PPP4C antibody at 1:500 dilution.



ARG54007 anti-PPP4C antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG54007 anti-PPP4C antibody at 1:200 dilution.



ARG54007 anti-PPP4C antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast cancer tissue stained with ARG54007 anti-PPP4C antibody at 1:500 - 1:1000 dilution.