

PPP2R2A Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20472a

Specification

PPP2R2A Antibody (N-term) - Product Information

| | |
|-------------------|--|
| Application | IHC-P, IF, WB,E |
| Primary Accession | P63151 |
| Other Accession | P36876 , P63150 , Q29090 , Q6P1F6 , Q4R7Z4 |
| Reactivity | Human |
| Predicted | Monkey, Mouse, Pig, Rabbit, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 51692 |
| Antigen Region | 43-71 |

PPP2R2A Antibody (N-term) - Additional Information

Gene ID 5520

Other Names

Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform, PP2A subunit B isoform B55-alpha, PP2A subunit B isoform PR55-alpha, PP2A subunit B isoform R2-alpha, PP2A subunit B isoform alpha, PPP2R2A

Target/Specificity

This PPP2R2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-71 amino acids from the N-terminal region of human PPP2R2A.

Dilution

IHC-P~~1:25

IF~~1:25

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PPP2R2A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP2R2A Antibody (N-term) - Protein Information

Name PPP2R2A

Function Substrate-recognition subunit of protein phosphatase 2A (PP2A) that plays a key role in cell cycle by controlling mitosis entry and exit (PubMed:[1849734](#), PubMed:[33108758](#)). Involved in chromosome clustering during late mitosis by mediating dephosphorylation of MKI67 (By similarity). Essential for serine/threonine-protein phosphatase 2A- mediated dephosphorylation of WEE1, preventing its ubiquitin-mediated proteolysis, increasing WEE1 protein levels, and promoting the G2/M checkpoint (PubMed:[33108758](#)).

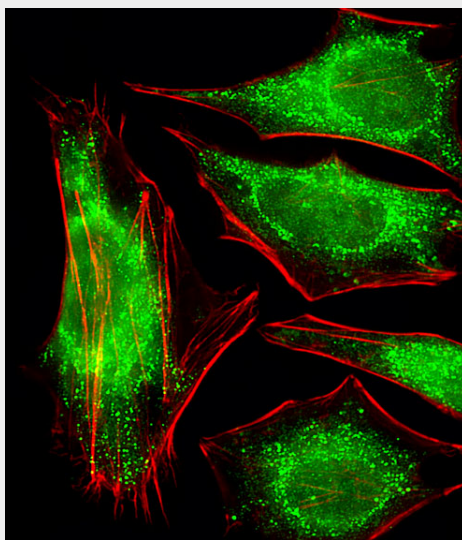
Tissue Location

Expressed in all tissues examined.

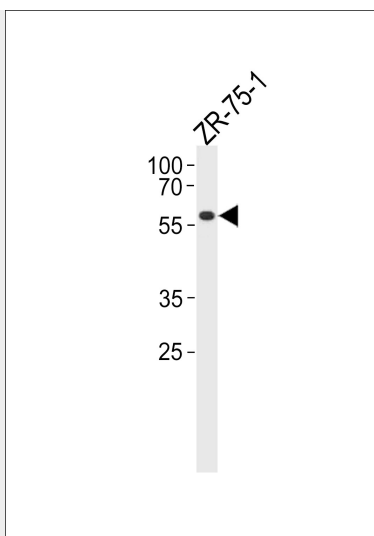
PPP2R2A Antibody (N-term) - Protocols

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

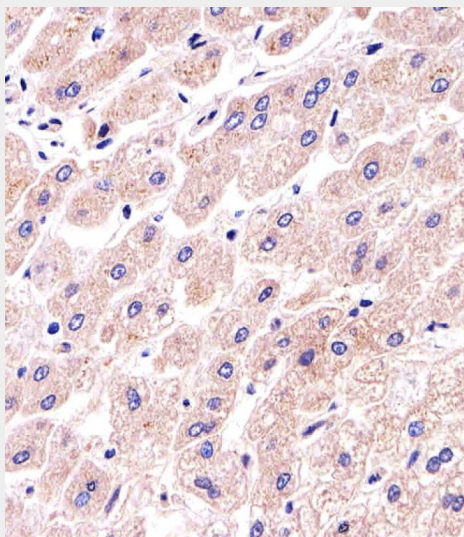
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP2R2A Antibody (N-term) - Images

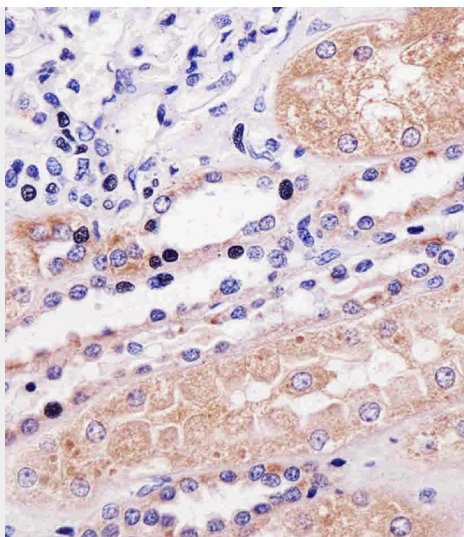
Fluorescent image of HeLa cells stained with PPP2R2A Antibody (N-term)(Cat#AP20472A). AP20472A was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



PPP2R2A Antibody (N-term) (Cat. #AP20472a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the PPP2R2A antibody detected the PPP2R2A protein (arrow).



Immunohistochemical analysis of paraffin-embedded H. liver section using PPP2R2A Antibody (N-term)(Cat#AP20472A). AP20472A was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. kidney section using PPP2R2A Antibody (N-term)(Cat#AP20472A). AP20472A was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

PPP2R2A Antibody (N-term) - Background

The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment.

PPP2R2A Antibody (N-term) - References

- Mayer R.E., et al. Biochemistry 30:3589-3597(1991).
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Nusbaum C., et al. Nature 439:331-335(2006).
- Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
- Li H.H., et al. EMBO J. 26:402-411(2007).