10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PPP2R2A Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20472a

Product Information

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

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	WB~~1:1000 IF~~1:25 IHC-P~~1:100~500 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.

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.

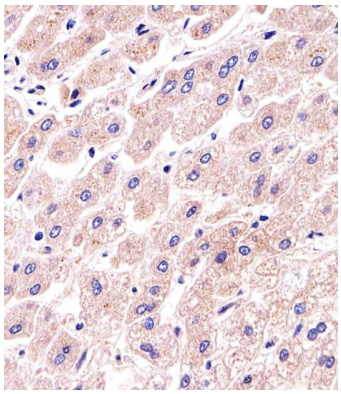
Background

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.

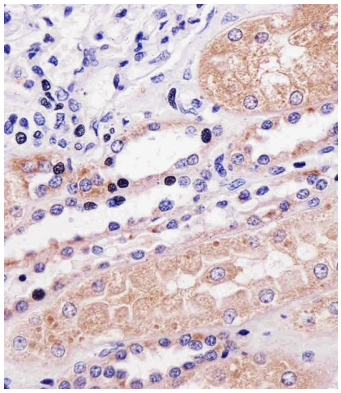
References

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).

Images

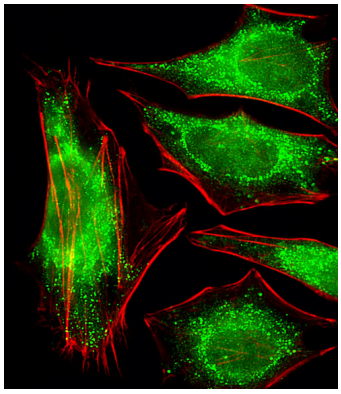


Immunohistochemical analysis of paraffin-embedded H. liver section using PPP2R2A Antibody (N-term)(Cat#AP20472A). AP20472A was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

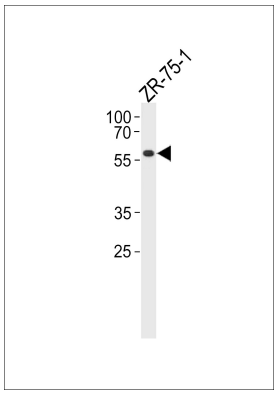


Immunohistochemical analysis of paraffin-embedded H. kidney section using PPP2R2A Antibody (N-term)(Cat#AP20472A). AP20472A was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

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 lgG 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).