

PP2A alpha Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8462b

Specification

PP2A alpha Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P67775
Other Accession	P23696 , P62716 , P11611 , P11493 , P62715 , P62714 , Q0P594 , P63331 , P67777 , P67776 , P63330 , P48463 , P67774 , G5EGK8
Reactivity Predicted	Human Bovine, Chicken, Mouse, Pig, Rabbit, Rat, C.Elegans, Drosophila
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	35594
Antigen Region	274-304

PP2A alpha Antibody (C-term) - Additional Information

Gene ID 5515

Other Names

Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform, PP2A-alpha, Replication protein C, RP-C, PPP2CA

Target/Specificity

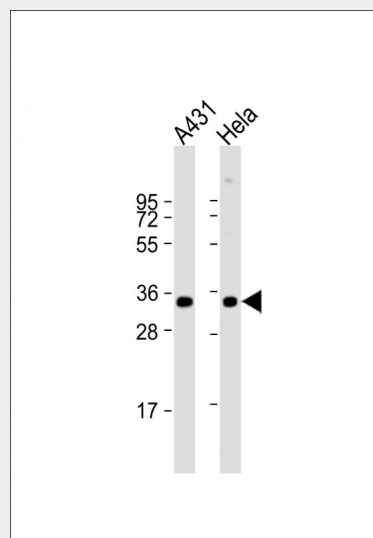
This PP2A alpha antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-304 amino acids from the C-terminal region of human PP2A alpha.

Dilution

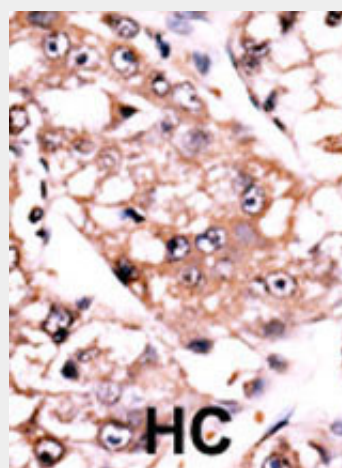
WB~~1:1000
IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS



All lanes : Anti-PPP2CA/B Antibody (F289) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data

with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

PP2A alpha Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PP2A alpha Antibody (C-term) - Protein Information

Name PPP2CA

Function

PP2A is the major phosphatase for microtubule-associated proteins (MAPs). PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGO2 to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I (By similarity). Can dephosphorylate SV40 large T antigen and p53/TP53. Activates RAF1 by dephosphorylating it at 'Ser-259' (PubMed:10801873). Mediates dephosphorylation of WEE1, preventing its ubiquitin-mediated proteolysis, increasing WEE1 protein levels, and promoting the G2/M checkpoint (PubMed:33108758).

Cellular Location

Cytoplasm. Nucleus. Chromosome, centromere. Cytoplasm, cytoskeleton, spindle pole. Note=In prometaphase cells, but not in anaphase cells, localizes at centromeres. During mitosis, also found at spindle poles. Centromeric localization requires the presence of SGO2 (By similarity).

demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PP2A alpha Antibody (C-term) - Background

PPP2CA/B represents the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits.

PP2A alpha Antibody (C-term) - References

Gergs, U., et al., J. Biol. Chem. 279(39):40827-40834 (2004).
Prickett, T.D., et al., J. Biol. Chem. 279(37):38912-38920 (2004).
Scott, G.K., et al., EMBO J. 22(23):6234-6244 (2003).
Rao, R.K., et al., Biochem. Biophys. Res. Commun. 293(1):610-616 (2002).
Avdi, N.J., et al., J. Biol. Chem. 277(43):40687-40696 (2002).

PP2A alpha Antibody (C-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](#)