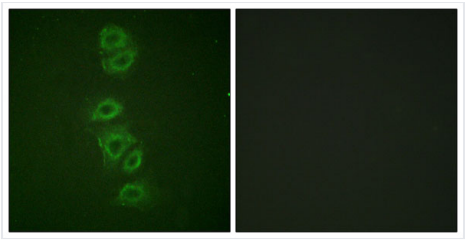
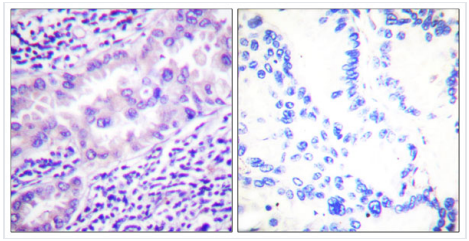
PP2A-alpha Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

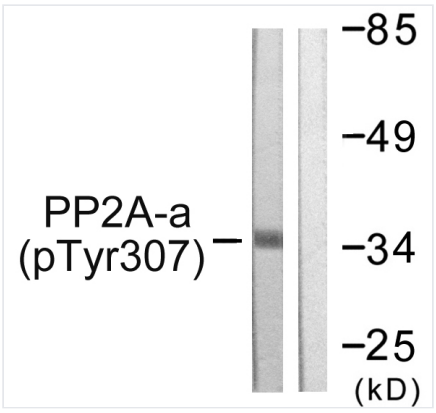
Product Name	PP2A-alpha, Polyclonal Antibody
Full Product Name	PP2A-alpha (Phospho-Tyr307) Antibody
Product Gene Name	anti-PP2A-alpha antibody
Product Synonym Gene Name	PPP2CA
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	PP2A-alpha (Phospho-Tyr307) Antibody detects endogenous levels of PP2A-alpha only when phosphorylated at Tyr307.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	35 kDa
OMIM	X12646 mRNA
3D Structure	ModBase 3D Structure for P67775
Target Modification	Phospho
Modification Sites	H:Y307; M:Y307; R:Y307
Immunogen	The antiserum was produced against synthesized peptide derived from human PP2A-alpha around the phosphorylation site of Tyr307.
Immunogen Range	260-309
Applications Tested/Suitable for anti-PP2A-alpha antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-PP2A-alpha antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:500 ELISA: 1:5000
Related Product Information for anti-PP2A-alpha antibody	MBS9502530 is an antibody targeting PP2A-alpha. Also known as PP2A-alpha (Phospho-Tyr307) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PP2A-alpha antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence (IF) of anti-PP2A-alpha antibody
Immunofluorescence analysis of A549 cells, using PP2A-alpha (Phospho-Tyr307) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry (IHC) of anti-PP2A-alpha antibody
Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using PP2A-alpha (Phospho-Tyr307) Antibody. The picture on the right is blocked with the phospho peptide.



Western Blot (WB) of anti-PP2A-alpha antibody
Western blot analysis of lysates from A549 cells, using PP2A-alpha (Phospho-Tyr307) Antibody. The lane on the right is blocked with the phospho peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PP2A-alpha. It may not necessarily be applicable to this product.

NCBI GI #	4506017
NCBI GeneID	5515
NCBI Accession #	NP_002706.1
UniProt Primary Accession #	P67775
UniProt Secondary Accession #	P05323; P13197
UniProt Related Accession #	P67775
GenBank Nucleotide #	NM_002715.3
NCBI Official Full Name	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform isoform 1
NCBI Official Synonym Full Names	protein phosphatase 2 catalytic subunit alpha
NCBI Official Symbol	PPP2CA
NCBI Official Synonym Symbols	RP-C; PP2Ac; PP2CA; PP2Calpha
UniProt Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Synonym Protein Names	Replication protein C; RP-C
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP2CA
UniProt Synonym Gene Names	PP2A-alpha; RP-C
NCBI Protein Information	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform

NCBI Summary for PP2A-alpha	This gene encodes 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. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008]
UniProt Comments for PP2A-alpha	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 (). Can dephosphorylate SV40 large T antigen and p53/TP53. Activates RAF1 by dephosphorylating it at 'Ser-259'.
Research Articles on PP2A-alpha	**1.** Moreover, PP2Acalpha2-overexpressed cells demonstrated increased expression of IGBP1, activated mTORC1 signaling to reduce basal autophagy and increased anchorage-independent growth. Our study provides new insights into the complex mechanisms of PP2A regulation.
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