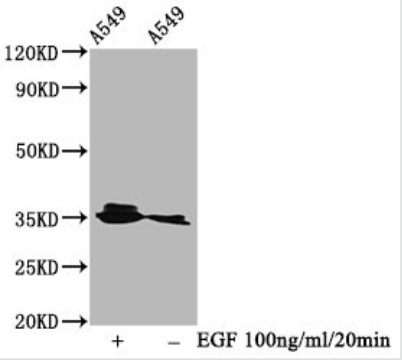
Phospho-PPP2CA (Y307) Antibody

Product Code	CSB-RA018559A307phHU
Abbreviation	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P67775
Immunogen	A synthesized peptide derived from Human Phospho-PPP2CA (Y307)
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	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'.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform, PP2A-alpha, Replication protein C, RP-C, PPP2CA
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	PPP2CA
Accession NO.	3F11

Image



Western Blot
Positive WB detected in A549 whole cell lysate(treated with EGF or not)
All lanes Phospho-PPP2CA antibody at 0.95µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 35 KDa
Observed band size: 35 KDa

Description

The phospho-PPP2CA (Y307) recombinant monoclonal antibody is a highly specific antibody against the human PPP2CA phosphorylated at Y307. This phospho-PPP2CA (Y307) antibody was expressed through the clone of the DNA sequence encoding the PP2AC Phospho-Y307 monoclonal antibody into plasmids and subsequent transfection into cell lines. Its isotype matches with the rabbit IgG. This anti-PPP2CA-pY307 antibody can be used in ELISA and WB applications for the detection of pTyr307 PPP2CA.

PP2A is a tumor suppressor that is frequently inactivated in human cancer. It has been reported that phosphorylation of tyrosine 307 on the PP2A catalytic subunit (PP2AC) inactivates PP2A. p-PP2A is a frequent change with clinical importance in metastatic colorectal cancer (CRC), according to Cristóbal et al. Importantly, p-PP2A may serve as a potential molecular target for identifying a subgroup of metastatic CRC patients with poor outcomes who may benefit from the use of PP2A-activating medicines in future anticancer treatments.