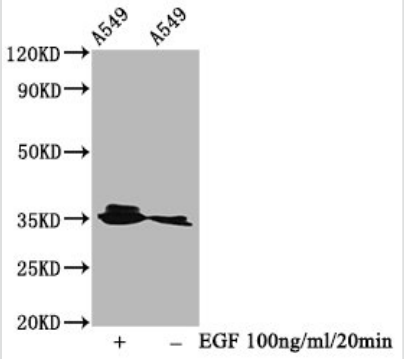
Phospho-PPP2CA (Y307) Recombinant Monoclonal Antibody

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
Clone 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 production of the phospho-PPP2CA (Y307) recombinant monoclonal antibody involves the utilization of protein technology and DNA recombinant techniques. Initially, animals are immunized with a synthesized peptide derived from human phospho-PPP2CA (Y307), resulting in the generation of B cells. These B cells are then screened to isolate positive ones, followed by single clone identification. The light and heavy chains of the phospho-PPP2CA (Y307) antibody are amplified via PCR and integrated into a plasmid vector to construct a recombinant vector. This recombinant vector is subsequently transfected into host cells to facilitate antibody expression. The phospho-PPP2CA (Y307) recombinant monoclonal antibody is purified from the supernatant of cell culture using affinity chromatography. Stringent validation is conducted to ensure its accuracy and efficacy for ELISA and WB applications. The phospho-PPP2CA (Y307) recombinant monoclonal antibody serves as a valuable tool for detection of human phospho-PPP2CA (Y307) protein in research settings.