

Rabbit Anti-PP2A alpha + beta antibody

SL0029R

Product Name:	PP2A alpha + beta
Chinese Name:	蛋白质磷酸酶-2A抗体
Alias:	PP2A; PP2A alpha; PP-2A; PP2A C; PP2Ac; PP2CA; PP2CA; PP2Calpha; RP-C; Protein phosphatase 2, catalytic subunit, alpha isoform; Replication protein C; RP C; PP2AA_HUMAN.
	Specific References(2) SL0029R has been referenced in 2 publications.
	[IF=3.33]Zhao, Hai-hua, et al. "Involvement of GSK3 and PP2A in ginsenoside Rb1's
	attenuation of aluminum-induced tau hyperphosphorylation." Behavioural Brain
文献引用	Research (2012).WB, IHC-P;Mouse.
Pub	PubMed:23219964
:	[IF=3.70]Lin, Lai-xiang, et al. "Feasibility of β -Sheet Breaker Peptide-H102 Treatment
	for Alzheimers Disease Based on β-Amyloid Hypothesis." PLoS one 9.11 (2014):
	e112052.IHC-P;Mouse.
	PubMed:25372040
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-
	Cyt=1ug/TestIF=1:100-500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	34kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml

immunogen:	KLH conjugated synthetic peptide derived from human PP-2A:205-309/309
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
	 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]. This antibody is crosed with PP-2A subunit A,B. Function: PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogenstimulated S6 kinase, and MAP-2 kinase. Cooperates with SGOL2 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. Dephosphorylates SV40 large T antigen, preferentially on serine residues 120, 123, 677, and perhaps 679. The C subunit was most active, followed by the AC form, which was more active than the ABC form, and activity of all three forms was strongly stimulated by manganese, and to a lesser extent by magnesium. Dephosphorylation by the AC form.
D., . d., .4 D. 4 . 9.	but not C or ABC form is inhibited by small T antigen. Activates RAF1 by
Product Detail:	dephosphorylating it at 'Ser-259'.
	Subunit: PP2A consists of a common heterodimeric core enzyme, composed of PPP2CA a 36 kDa catalytic subunit (subunit C) and PPP2R1A a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B"/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Interacts with NXN; the interaction is direct (By similarity). Interacts with TP53, SGOL1 and SGOL2. Interacts with AXIN1; the interaction dephosphorylates AXIN1. Interacts with PIM3; this interaction promotes dephosphorylation, ubiquitination and proteasomal degradation of PIM3. Interacts with RAF1.
	Subcellular 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 SGOL2 (By similarity).

Post-translational modifications:

Reversibly methyl esterified on Leu-309. Carboxyl methylation may play a role in holoenzyme assembly, enhancing the affinity of the PP2A core enzyme for some, but not all, regulatory subunits. It varies during the cell cycle.

Phosphorylation of either threonine (by autophosphorylation-activated protein kinase) or tyrosine results in inactivation of the phosphatase. Auto-dephosphorylation has been suggested as a mechanism for reactivation.

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Similarity:

Belongs to the PPP phosphatase family. PP-1 subfamily.

SWISS: P67775

Gene ID: 5515

Database links:

Entrez Gene: 416318Chicken

Entrez Gene: 282320Cow

Entrez Gene: 5515Human

Entrez Gene: 19052Mouse

Entrez Gene: 397656Pig

Entrez Gene: 100009252Rabbit

Entrez Gene: 24672Rat

<u>Omim: 176915</u>Human

SwissProt: P48463Chicken

SwissProt: P67774Cow

SwissProt: P67775Human

SwissProt: P63330Mouse

SwissProt: P67776Pig

	SwissProt: P67777Rabbit
	<u>SwissProt: P63331</u> Rat
	Unigene: 105818Human
	Unigene: 260288Mouse
	Unigene: 1271Rat
	Important Note:
	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
	Kinases and Phosphatases (Kinases and Phosphatases) PP-2A (protein phosphatase 2A catalytic subunit; PP2A alpha;)参与酵母细胞及两栖类卵母细胞有丝分裂的蛋白丝/苏氨酸磷酸酶。
	此酶的表达与细胞周期调节有关。此抗体与PP-2A subunit A,B,C 均有React Species。
Picture:	$\frac{100}{63} - \frac{100}{48} - \frac{100}{25} - \frac{100}{20} + \frac{100}{25} - \frac{100}{20} + \frac{100}{25} - \frac{100}{20} + \frac{100}{20} - \frac{100}{20} + 1$

Sample:

Liver (Mouse) Lysate at 30 ug

Kidney (Mouse) Lysate at 30 ug

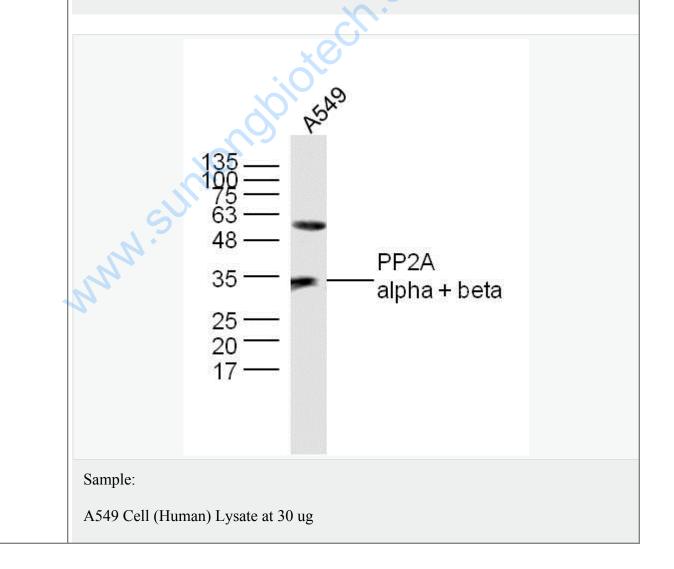
Muscle (Mouse) Lysate at 30 ug

Primary: Anti- PP2A alpha + beta (SL0029R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 34 kD

Observed band size: 34 kD

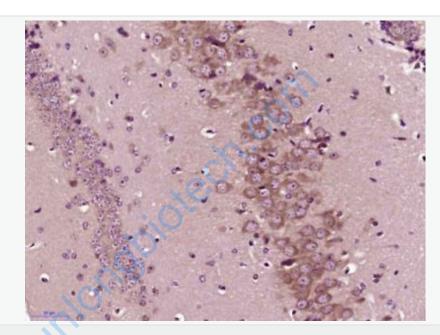


Primary: Anti-PP2A alpha + beta (Bs- 0029R) at 1/300 dilution

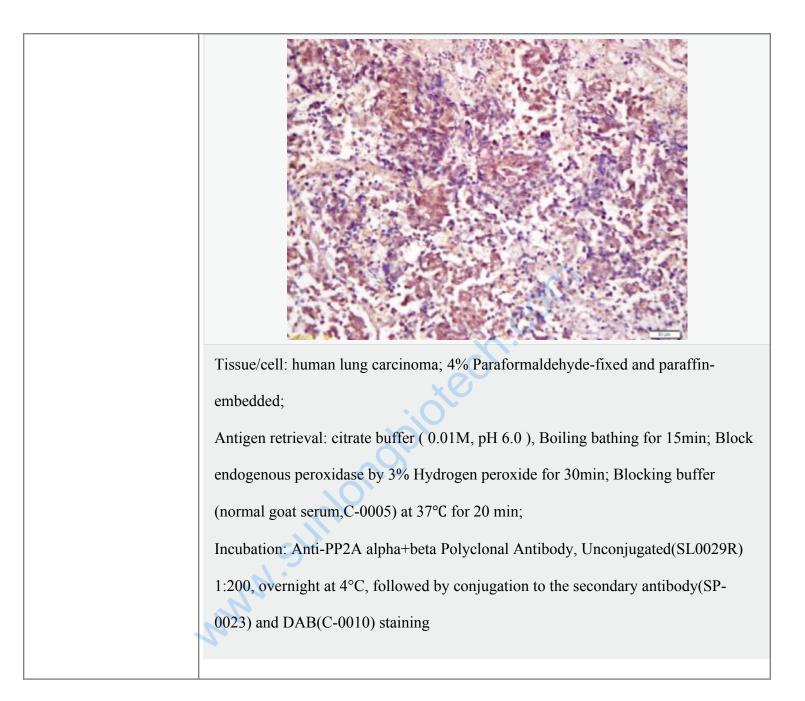
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

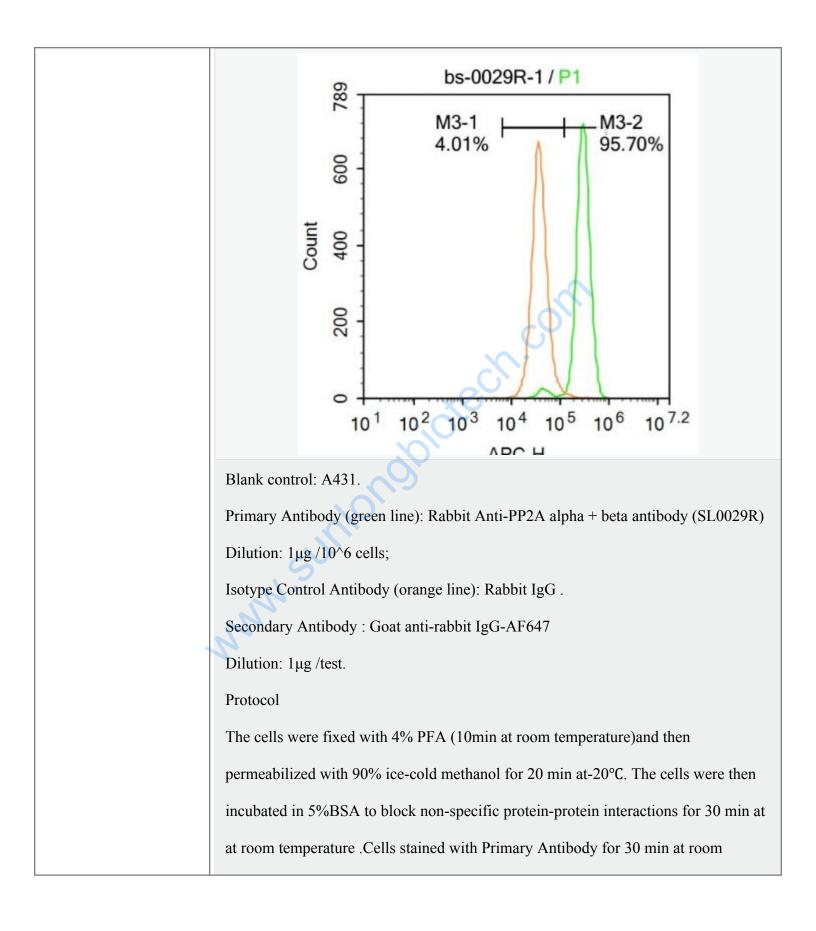
Predicted band size: 34 kD

Observed band size: 34 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PP2A alpha + beta) Polyclonal Antibody, Unconjugated (SL0029R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.





temperature. The secondary antibody used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

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