



# PP2B-A $\alpha$ Monoclonal Antibody

<b>Catalog No</b>	BYab-14203
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	PPP3CA
<b>Protein Name</b>	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
<b>Immunogen</b>	Purified recombinant human PP2B-A $\alpha$ protein fragments expressed in E.coli.
<b>Specificity</b>	PP2B-A $\alpha$ Monoclonal Antibody detects endogenous levels of PP2B-A $\alpha$ protein.
<b>Formulation</b>	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PPP3CA; CALNA; CNA; Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform; CAM-PRP catalytic subunit; Calmodulin-dependent calcineurin A subunit alpha isoform
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm . Cell membrane ; Peripheral membrane protein . Cell membrane, sarcolemma . Cytoplasm, myofibril, sarcomere, Z line . Cell projection, dendritic spine . Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle (By similarity). Recruited to the cell membrane by scaffold protein AKAP5 following L-type Ca(2+)-channel activation (PubMed:22343722). .
<b>Tissue Specificity</b>	Expressed in keratinocytes (at protein level) (PubMed:29043977). Expressed in lymphoblasts (at protein level) (PubMed:30254215).
<b>Function</b>	catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,cofactor:Binds 1 Fe(3+) ion per subunit.,cofactor:Binds 1 zinc ion per subunit.,function:Calcium-dependent, calmodulin-stimulated protein phosphatase. This subunit may have a role in the calmodulin activation of calcineurin. Dephosphorylates HSPB1 and SSH1.,online information:Calcineurin entry,similarity:Belongs to the PPP phosphatase family.,similarity:Belongs to the

Nanjing BYabscience technology Co.,Ltd



PPP phosphatase family. PP-2B subfamily.,subcellular location:Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle.,subunit:Composed of two components (A and B), the A component is the catalytic subunit and the B component confers calcium sensitivity. Interacts with TORC2/CRTC2, MYOZ1, MYOZ2 and MYOZ3.,

**Background**

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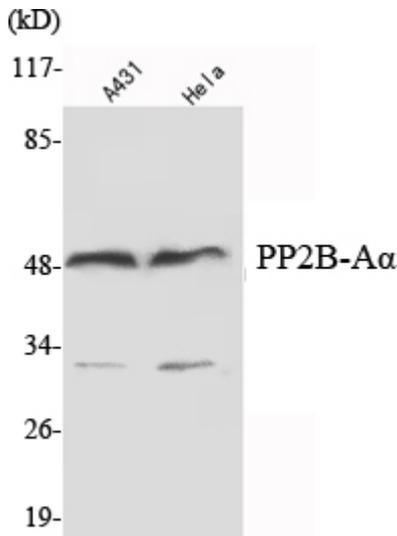
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis using PP2B-A $\alpha$  Monoclonal Antibody against A431, HeLa cell lysate .