



# PP2B-A $\alpha$ Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-14203                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>                   | PPP3CA                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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>                      | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>                    | CALNA;Calcineurin A alpha;Calmodulin-dependent calcineurin A subunit alpha isoform;CALN;PP2B-A $\alpha$ ;PPP3CA;Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform;CNA;CAM-PRP catalytic subunit                                                                                                                                                                                                                                            |
| <b>Observed Band</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Calculated Molecular Weight</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 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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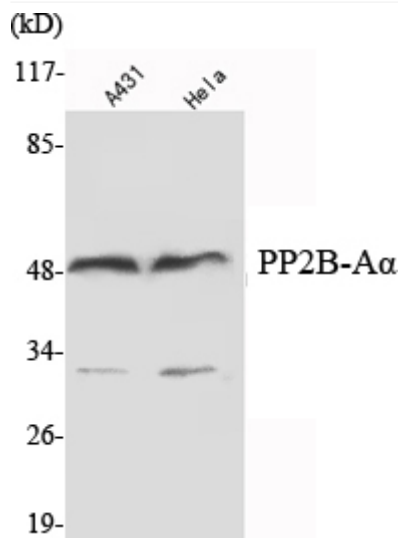
#### matters needing attention

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-Aα Monoclonal Antibody against A431, HeLa cell lysate .