Data Sheet (Cat.No.TMAC-03393)

Anti-PP2A alpha/beta Antibody (6N831)

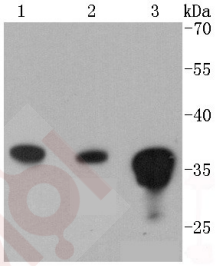
Product Details

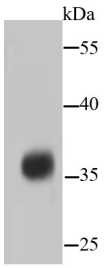
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 36 kDa.
Clone:	6N831
Purification:	ProA affinity purified

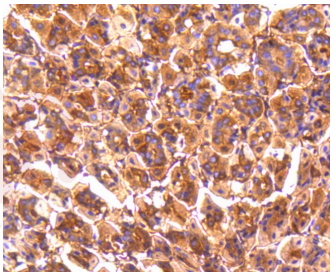
Applications

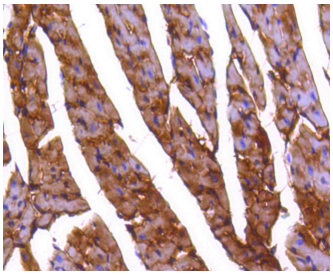
Verified Activity:

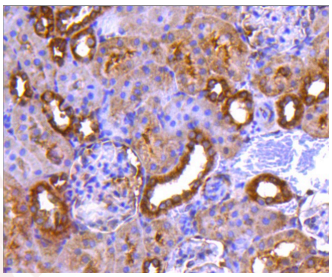
1. Western blot analysis of PP2A alpha + beta on different lysates using anti-PP2A alpha + beta antibody at 1/1,000 dilution. Positive control: Lane 1: A431, Lane 2: NIH/3T3, Lane 3: 293T.
2. Western blot analysis of PP2A alpha + beta on hybrid fish (crucian-carp) brain tissue lysate using anti-PP2A alpha + beta antibody at 1/500 dilution.
3. Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin. <p>
7. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin.
8. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PP2A alpha + beta antibody. Counter stained with hematoxylin.
9. ICC staining PP2A alpha + beta in PANC-1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining PP2A alpha + beta in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
11. ICC staining PP2A alpha + beta in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
12. ICC staining PP2A alpha + beta in L6 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

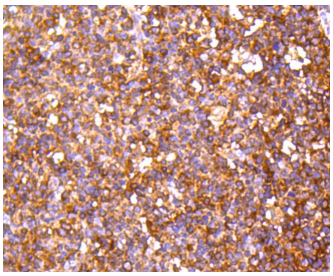


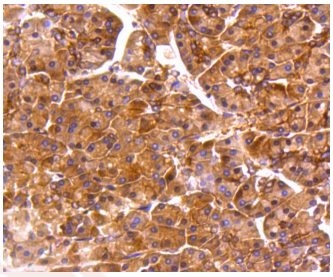

kDa
55
40
35
25

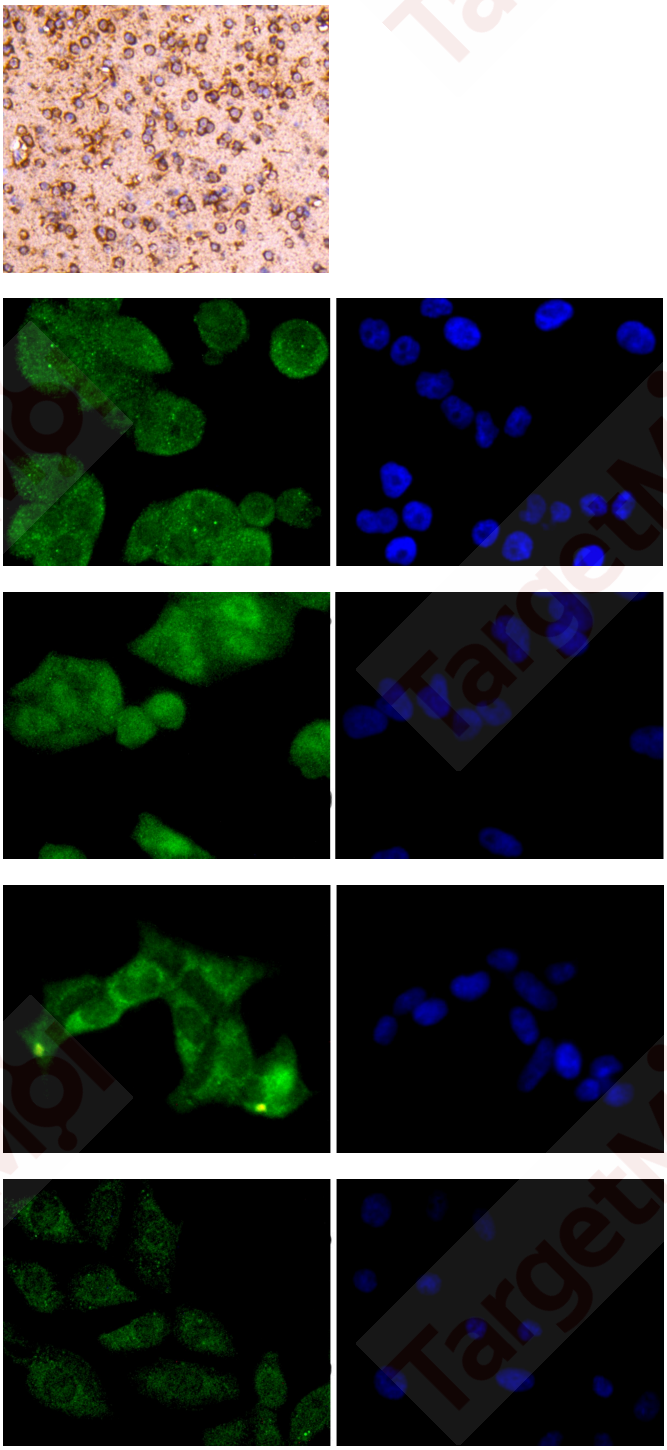












Application: ICC,IHC,IP,WB

Recommended: WB: 1:1000-2000; IHC: 1:100-200; ICC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Synonyms:	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform;PP2A B;PP2A alpha; RP C;PP2A α/β;PP2A a/b;PPP2CA;PP2Aalpha/beta;PP2A beta;Replication protein C;Protein phosphatase 2 catalytic subunit alpha isoform;PP2A A;PPP2CB;Serine/threonine protein phosphatase 2A catalytic subunit beta isoform;PP2CB;PP2Aα/β;PP2A-alpha;PP2AA_HUMAN; Serine/threonine protein phosphatase 2A catalytic subunit alpha isoform;RP-C;Protein phosphatase 2 catalytic subunit beta isoform;PP2Aa/b;PP2Ac

Research Background

The catalytic subunit of protein phosphatase 2A (PP2A) is inactivated by in vitro phosphorylation of Tyr-307 by receptor and nonreceptor protein tyrosine kinases. The catalytic subunit of PP2A is phosphorylated by tyrosine-specific protein kinases and associates with a variety of regulatory subunits. Phosphorylation is enhanced in the presence of the phosphatase inhibitor okadaic acid, consistent with an autodephosphorylation reaction. Phosphorylation is catalyzed by p60v-src, p56lck, epidermal growth factor receptors, and insulin receptors. Transient deactivation of PP2A might enhance transmission of cellular signals through kinase cascades within cells. In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases.