PPP1CB polyclonal antibody

Catalog: BS91102 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

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 division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases. In general, the protein phosphatase (PP) holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. Four major families of protein phosphatase catalytic subunit have been identified, designated PP1, PP2A, PP2B (calcineurin) and PP2C. An additional protein phosphatase catalytic subunit, PPX (also known as PP4) is a putative member of a novel PP family. The PP1 family is comprised of subfamily members PP1α, PP1β and PP1γ, which are MgATP-dependent enzymes. PP1 inactivity is maintained through its association with the inhibitory protein NIPP-1 (nuclear inhibitor of PP1). Phosphorylation of NIPP-1 by cAMP-PK or casein kinase II results in the release of active PP1.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

37 kDa

Swiss-Prot:

P62140 Human;P62141 Mouse;P62142 Rat

Purification&Purity:

Protein A purified.

Applications:

WB:1:1,000-1:10,000

IP:1:50

IHC:1:50-1:200

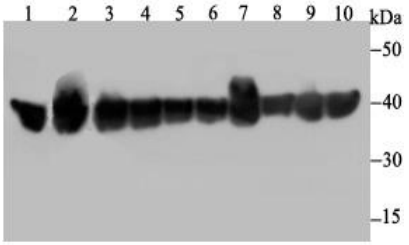
Storage&Stability:

Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

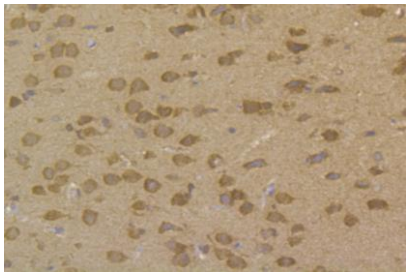
Specificity:

PPP1CB polyclonal antibody detects endogenous levels of PPP1CB protein.

DATA:



Western blot analysis of PPP1CB on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.Positive control: Lane 1: Mouse skeletal muscle tissue lysateLane 2: Rat brain tissue lysateLane 3: A431 cell lysateLane 4: SH-SY-5Y cell lysateLane 5: SiHa cell lysateLane 6: 293 cell lysateLane 7: Hela cell lysateLane 8: PC-3M cell lysateLane 9: HepG2 cell lysateLane 10: A549 cell lysate



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PPP1CB antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 mins.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with ET7109-40 at 1/200 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chrogen. Counter stained with hematoxylin and mounted

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with DPX.

For research use only, not for use in diagnostic procedure.

Note:

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