

## PP1C alpha Mouse mAb (PBS Only)

db6650-PBS

Package : 可询价

**Product Name** : PP1C alpha Mouse mAb (PBS Only)**Cat.No.:** db6650-PBS**Synonyms** : PP-1A; PPP1A; PP1alpha**Application** : WB, IHC-Fr, IHC-P, ICC/IF**Reactivity** : Human**Host species** : Mouse**Background**

Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca<sup>2+</sup>/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Regulates NEK2 function in terms of kinase activity and centrosome number and splitting, both in the presence and absence of radiation-induced DNA damage. Regulator of neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates the 'Ser-418' residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed/23396208). Dephosphorylates CENPA (PubMed/25556658). Dephosphorylates the 'Ser-139' residue of ATG16L1 causing dissociation of ATG12-ATG5-ATG16L1 complex, thereby inhibiting autophagy (PubMed/26083323).

**Immunogen**

Purified recombinant human PPP1A protein fragments expressed in E.coli

**Gene ID**

5499

**Swiss Prot**

P62136

**Synonyms**

PP-1A; PPP1A; PP1alpha

**Reactivity**

Human

**Application**

WB, IHC-Fr, IHC-P, ICC/IF

**Calculated MW**

38 kDa

Observed MW	38 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	1C11-C10-H5-E9
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.

