
PP-1 Antibody

Subcategory: Mouse Polyclonal Antibody

Cat. No.: 250829

Unit: 0.1 mg

Description:

The protein phosphatase 1 (PP1) is essential for cell division and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. PP-1 is involved in the regulation of ionic conductances and long-term synaptic plasticity. PP-1 plays an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II. PP-1 holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. The PP1 catalytic subunit can be PP1-alpha (PPP1CA), PP1-beta (PPP1CB) or PP1-gamma (PPP1CC), which is folded into its native form by inhibitor 2 and glycogen synthetase kinase 3, and then complexed to one or several targeting or regulatory subunits. This antibody recognizes PP1-alpha, PP1-beta and PP1-gamma.

Isotype: Mouse Ig

Applications: E, IHC, WB

Species Reactivity: H, M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: Serine/threonine-protein phosphatase PP1-alpha catalytic subunit; PP-1A; PPP1CA; PPP1A; Serine/threonine-protein phosphatase PP1-beta catalytic subunit; PP-1B; PPP1CB; Serine/threonine-protein phosphatase PP1-gamma catalytic subunit; PP-1G; Protein phosphatase 1C catalytic subunit; PPP1CC

Accession No.: P62136, P62140, P36873

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PP-1.

Application Notes: Product Cat. No. 250829 recognizes PP1-alpha, PP1-beta and PP1-gamma. E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:200-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

Product Citations: Hoeffler C et al.2013. The Journal of Neuroscience. 33(43):16930-16944. PMID# 24155299.

For research use only, not for diagnostic or therapeutic procedures.