



Product Information Sheet

Monoclonal Anti- Protein phosphatase1 α , PP1 α

Catalogue No. MA1086

Lot No. 08A12

Clone: PP-1A

Ig type: mouse IgG2b

Size: 100 μ g/vial

Specificity

Human, mouse, rat, rabbit.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunocytochemistry

Immunogen

Recombinant rabbit protein phosphatase 1 α (PP1 α) catalytic subunit

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2-4 μ g/ml with the appropriate system to detect PP1 α in cells and tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100 μ g/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Protein phosphatase 1 alpha(PP1A) is one of four major serine/threonine-specific protein phosphatases which have been identified in eukaryotic cells by enzymatic methods. Phosphorylation of serine and threonine residues in proteins is a crucial step in the regulation of many cellular functions ranging from hormonal regulation to cell division and even short-term memory. Protein phosphatase-1 determined the efficacy of learning and memory by limiting acquisition and favoring memory decline. PPP1A gene is mapped to 11q13. Protein phosphatase 1 is a molecular constraint on learning and memory

REFERENCE

1. Barker, H. M.; Jones, T. A.; da Cruz e Silva, E. F.; Spurr, N. K.; Sheer, D.; Cohen, P. T. W. : Localization of the gene encoding a type I protein phosphatase catalytic subunit to human chromosome band 11q13. *Genomics* 7: 159-166, 1990.
- 2 Genoux, D.; Haditsch, U.; Knobloch, M.; Michalon, A.; Storm, D.; Mansuy, I. M. : Protein phosphatase 1 is a molecular constraint on learning and memory. *Nature* 418: 970-975, 2002.