

Product Information

Monoclonal Anti-PP2A, C subunit

Clone 7A6, produced in mouse
Purified Immunoglobulin

SAB4200266

Product Description

Monoclonal Anti-PP2A, C subunit (mouse IgG1 isotype) is derived from the hybridoma 7A6 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a fragment of human PPP2CA (GeneID: 5515). The corresponding sequence is identical in rat, mouse, monkey, bovine, canine, porcine, rabbit, chicken, *drosophila*, yeast (*S. pombe*), and *arabidopsis* PP2A, C subunit. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-PP2A, C subunit recognizes human, rat, and mouse PP2A, C subunit isoforms α and β (not tested in other species). The antibody may be used in several immunochemical techniques including immunoblotting (36 kDa) and immunoprecipitation.¹

Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit, PP2A C subunit (PP2Ac), and a constant regulatory subunit, that associates with a variety of regulatory subunits.

PP2Ac undergoes two post-translational modifications, phosphorylation and methylation, which are involved in the regulation of the enzyme activity. Two isoforms of PP2Ac, α and β , encoded by different genes, exist in mammals. Both isoforms are ubiquitously expressed and share 97% identity.¹⁻⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

For research use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 1–2 $\mu\text{g/mL}$ is recommended using whole extracts of mouse 3T3, rat Rat2, or human A431 cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Fellner, T., et al., *Genes Dev.*, **17**, 2138–2150 (2003).
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3. Arino, J., et al., *Proc. Natl. Acad. Sci. U.S.A.*, **85**, 4252–4256 (1988).
4. Favre, B., et al., *J. Biol. Chem.*, **269**, 16311–16317 (1994).

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