

Product Information

Monoclonal Anti-PP2A Subunit B Isoform PR55- α

Clone 2G9 produced in Mouse
Purified Immunoglobulin

SAB4200241

Product Description

Monoclonal Anti-PP2A subunit B isoform PR55- α (mouse IgG1 isotype) is derived from the hybridoma 2G9 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a fragment of rat PP2A subunit B isoform PR55- α , (GeneID: 117104). The corresponding sequence is identical in human, mouse, monkey, bovine, canine, porcine, rabbit, and chicken and differs by a single amino acid in *Xenopus* PP2A subunit B isoform PR55- α . The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Cat. No. ISO2). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-PP2A subunit B isoform PR55- α recognizes rat, human, and mouse PP2A subunit B isoform PR55- α . The antibody may recognize rat PP2A-B55- β , human PP2A-B55- β and weakly with rabbit PP2A-B55- γ . The antibody may be used in several immunochemical techniques including immunoblotting (50–55 kDa), immunohistochemistry, and immunofluorescence.¹⁻⁵

PP2A subunit B isoform PR55- α (PPP2R2A) belongs to the phosphatase (PP)2A regulatory subunit B family. Protein phosphatase 2A is one of the major Ser/Thr phosphatases, and is implicated in the negative control of cell growth and division. The core enzyme is a dimer composed of a catalytic subunit (C) and a constant regulatory subunit (A), that associates with a regulatory subunit (B). Several families of B regulatory subunits have been identified which modulate substrate selectivity and catalytic activity. PPP2R2A encodes an alpha isoform of the regulatory subunit B55 subfamily. Alternatively, spliced transcript variants have been described.¹⁻⁴

Reagent

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

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 μ g/mL is recommended using whole extracts of mouse 3T3, rat NRK, or human HeLa cells.

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

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References

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