

Product Information

Monoclonal Anti-PP2A subunit B isoform B56- δ clone H5D12

produced in mouse, purified immunoglobulin

Catalog Number **SAB4200255**

Product Description

Monoclonal Anti-PP2A subunit B isoform B56- δ (mouse IgG1 isotype) is derived from the hybridoma H5D12 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a fusion protein corresponding to the N-terminus of human PP2A B subunit isoform B56 delta (GeneID: 5528). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-PP2A subunit B isoform B56- δ recognizes human and rat PP2A B subunit isoform B56- δ . The antibody does not cross-react with PP2A-B55, PP2A-B56- α , PP2A-B56- β , PP2A-B56- γ or PP2A-B56- ϵ . The antibody may be used in several immunochemical techniques including immunoblotting (~72 kDa).

PP2A subunit B isoform B56 δ (PPP2R5D) belongs to the phosphatase PP2A 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. PPP2R5D encodes a delta isoform of the regulatory subunit B56 subfamily. Alternatively spliced transcript variants encoding different isoforms have been identified.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

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material 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 2.5-5.0 μ g/mL is recommended using whole extracts of human U-2-OS or rat Rat2 cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Sontag, E., et al., *J. Neuropathol. Exp. Neurol.*, **63**, 287-301 (2004).
2. Yu, U.Y., and Ahn, J.H., *BMB Rep.*, **43**, 263-267 (2010).
3. Forester, C.M., et al., *Proc. Natl. Acad. Sci. USA*, **104**, 19867-19872 (2007).
4. McCright, B., et al., *J. Biol. Chem.*, **271**, 22081-22089 (1996).

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