

Human/Mouse/Rat PPP2R4 Antibody

Monoclonal Mouse IgG₁ Clone # 529245 Catalog Number: MAB5929

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PPP2R4 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 529245
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human PPP2R4 Glu14-Asn323 Accession # Q15257
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

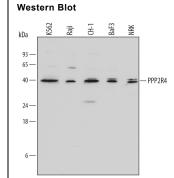
APPLICATIONS

DESCRIPTION

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human/Mouse/Rat PPP2R4 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, Raji human Burkitt's lymphoma cell line, CH-1 mouse B cell lymphoma cell line, BaF3 mouse pro-B cell line, and NRK rat normal kidney cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat PPP2R4 Monoclonal Antibody (Catalog # MAB5929) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PPP2R4 at approximately 39 to 41 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPAR	ΚΟΙΤΑ	AND.	STOR	AGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

PPP2R4, also known as serine/threonine protein phosphatase 2A regulatory subunit B', PR53 isoform, and PTPA, is a widely expressed member of the PTPA-type peptidyl prolyl isomerase family. Human PPP2R4 is 358 amino acids (aa) in length. Three splicing variants produce four isoforms for PPP2R4, and isoform 2 is the standard protein. Isoform 1, isoform 3 and isoform 4 have deletions corresponding to aa 73-107, 45-108, and 73-149 in isoform 2, respectively. Human PPP2R4 is 87% aa identical to mouse and rabbit PPP2R4. PPP2R4 reversibly stimulates the variable phosphotyrosyl phosphatase activity of the PP2A core heterodimer in the presence of ATP and ${\rm Mg^{2+}}$. It has been shown that p53 downregulates the expression of PPP2R4.

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