

DESCRIPTION

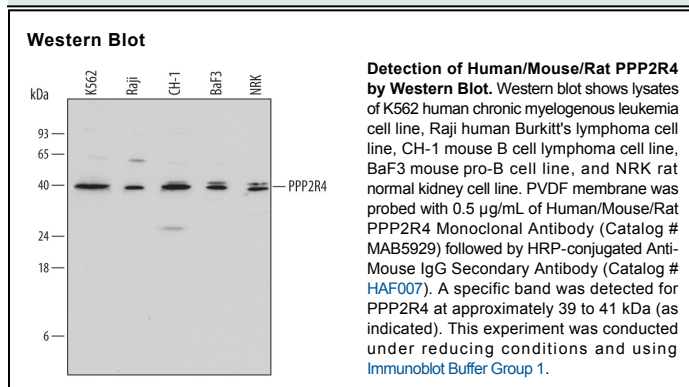
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PPP2R4 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 529245
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PPP2R4 Glu14-Asn323 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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS

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



PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> ● 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 Mg²⁺. It has been shown that p53 downregulates the expression of PPP2R4.