

## DESCRIPTION

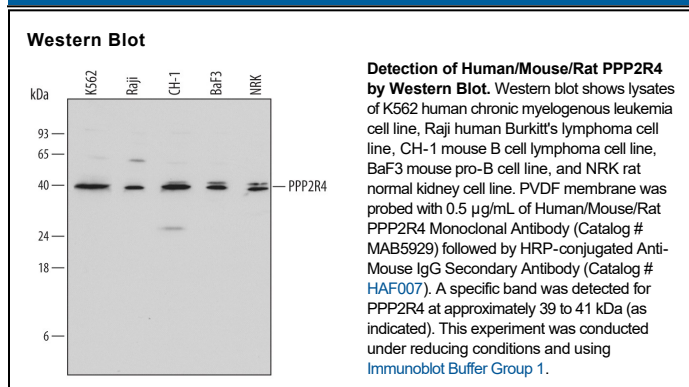
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects endogenous human, mouse and rat PPP2R4 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 529245
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human PPP2R4 Glu14-Asn323 Accession # Q15257
<b>Formulation</b>	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

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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 Mg<sup>2+</sup>. It has been shown that p53 downregulates the expression of PPP2R4.