

**DESCRIPTION**

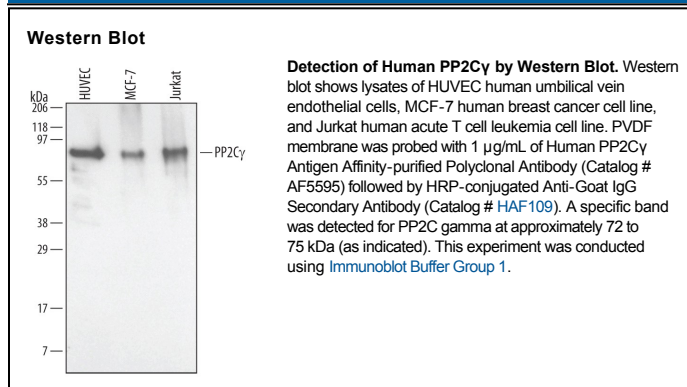
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human PP2Cγ in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human PP2Cγ Met1-Asp546 Accession # O15355
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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>	1 μg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 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**

PP2Cγ (Protein phosphatase 2C gamma; also PPM1G) is a nuclear member of the metal ion-dependent PP2C family of Ser/Thr protein phosphatases. Although its predicted MW is 59 kDa, it runs anomalously at 72-75 kDa in SDS-PAGE. PP2Cγ is widely expressed and serves as a negative regulator of the cell stress response. In particular, it dephosphorylates histones H2A and H2B, allowing for their placement into chromatin. This is important when histones are reincorporated into DNA following DNA repair. Human PP2Cγ is 546 amino acids (aa) in length. It contains a catalytic domain (aa 27-120), an Asp/Glu-rich region (aa 258-326) and a poly-Lys tail (aa 539-544). One potential splice form shows a Phe substitution for aa 20-38.