

## DESCRIPTION

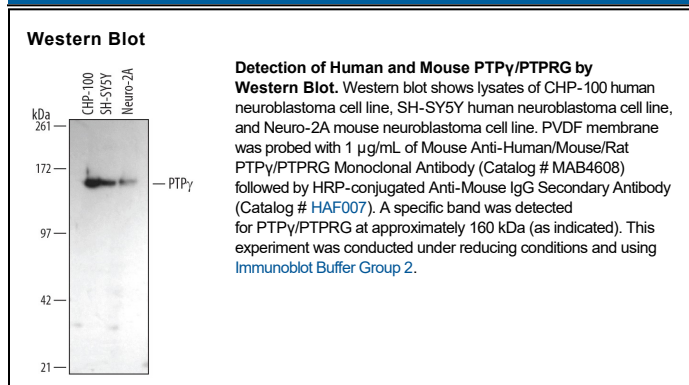
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat PTP $\gamma$ /PTPRG in Western blots. In Western blots, no cross-reactivity with recombinant human PTPRM, PTPRK, PTPRS, LAR, or DEP1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 481505
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human PTP $\gamma$ /PTPRG Ser111-Ala541 Accession # P23470
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m 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 $\mu$ g/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

Protein Tyrosine Phosphatase, Receptor type gamma (PTP $\gamma$ ), also called PTPRG and PTPG, is a transmembrane protein. Its extracellular region contains carbonic anhydrase fibronectin III domains, suggesting that it interacts with adhesion molecules, but the only reported activator is an intracellular ATP-dependent factor. During brain development, PTP $\gamma$  is found exclusively in post-mitotic neurons. A wide variety of cancers, including colon, renal clear cell, lung, breast, and cervical cancers, show a high incidence of defects in the PTP $\gamma$  gene, suggesting the protein has a key regulatory function in tumor suppression.