

Human/Mouse/Rat PTPy/PTPRG Antibody

Monoclonal Mouse IgG_{2B} Clone # 481505 Catalog Number: MAB4608

DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat PTPy/PTPRG in Western blots. In Western blots, no cross-reactivity with recombinant human PTPRM, PTPRK, PTPRS, LAR, or DEP1 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 481505		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	<i>E. coli</i> -derived recombinant human PTPγ/PTPRG Ser111-Ala541 Accession # P23470		
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.		

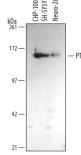
APPLICATIONS

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	1 μg/mL	See Below

DATA





Detection of Human and Mouse PTPy/PTPRG by Western Blot. Western blot shows lysates of CHP-100 human neuroblastoma cell line, SH-SY5Y human neuroblastoma cell line, and Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat PTPy/PTPRG Monoclonal Antibody (Catalog # MAB4608) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PTPy/PTPRG at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

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. • 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

Protein Tyrosine Phosphatase, Receptor type gamma (PTPRy), 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, PTPRy 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 PTPRy gene, suggesting the protein has a key regulatory function in tumor suppression.

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