

Human PTPRy Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4608

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human PTPRy in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant PTPRM, PTPRK, PTPRS, LAR, and DEP1 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human PTPRγ Ser111-Ala541 Accession # P23470		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		

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
Immunohistochemistry	5-15 μg/mL	See Below

DATA

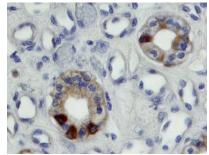
42

00 / 5/5/5 kDa 261 — 172 — — PTPRy 97 —

Western Blot

Detection of Human PTPRy by Western Blot. Western blot shows lysates of CHP-100 human neuroblastoma cell line and SH-SV5Y human neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human PTPRy Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4608) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PTPRy at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



in Human Kidney. was detected in immersion fixed paraffinembedded sections of human kidney using 15 µg/mL Goat Anti-Human PTPRy Antigen Affinitypurified Polyclonal Antibody (Catalog # AF4608) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of epithelial cells in tubules. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 and 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.

