

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 PTPy/PTPRG Ser111-Ala541 Accession # P23470
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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