

PTP gamma Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8414a

Product Information

Application	WB, E
Primary Accession	P23470
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB0553
Calculated MW	162003
Antigen Region	751-782

Additional Information

Gene ID	5793
Other Names	Receptor-type tyrosine-protein phosphatase gamma, Protein-tyrosine phosphatase gamma, R-PTP-gamma, PTPRG, PTPG
Target/Specificity	This PTP gamma antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 751-782 amino acids from the Central region of human PTP gamma.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PTP gamma Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTPRG
Synonyms	PTPG
Function	Possesses tyrosine phosphatase activity.

Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Found in a variety of tissues.

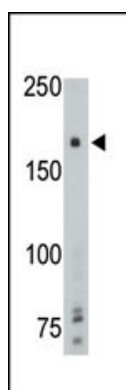
Background

PTPgamma is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this PTP contains a carbonic anhydrase-like (CAH) domain, which is also found in the extracellular region of PTPRBETA/ZETA. The gene is located in a chromosomal region that is frequently deleted in renal cell carcinoma and lung carcinoma, thus is thought to be a candidate tumor suppressor gene.

References

Liu, S., et al., Breast Cancer Res. Treat. 71(1):21-35 (2002).
Kastury, K., et al., Genomics 32(2):225-235 (1996).
Barnea, G., et al., Mol. Cell. Biol. 13(3):1497-1506 (1993).
LaForgia, S., et al., Proc. Natl. Acad. Sci. U.S.A. 88(11):5036-5040 (1991).
Krueger, N.X., et al., EMBO J. 9(10):3241-3252 (1990).

Images



The anti-PTPgamma Center Pab (Cat. #AP8414a) is used in Western blot to detect PTPgamma in mouse brain tissue lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.