10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PTPN12 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21931b

Product Information

Application	WB, E
Primary Accession	Q05209
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54520
Calculated MW	88106

Additional Information

Gene ID	5782
Other Names	Tyrosine-protein phosphatase non-receptor type 12, 3.1.3.48, PTP-PEST, Protein-tyrosine phosphatase G1, PTPG1, PTPN12
Target/Specificity	This PTPN12 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 724-756 amino acids from human PTPN12.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	PTPN12 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTPN12
Function	Dephosphorylates a range of proteins, and thereby regulates cellular signaling cascades (PubMed:18559503). Dephosphorylates cellular tyrosine kinases, such as ERBB2 and PTK2B/PYK2, and thereby regulates signaling via ERBB2 and PTK2B/PYK2 (PubMed:17329398, PubMed:27134172). Selectively dephosphorylates ERBB2 phosphorylated at 'Tyr-1112', 'Tyr-1196', and/or

'Tyr-1248' (PubMed:27134172).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P35831}. Cell junction, focal adhesion. Cell projection, podosome {ECO:0000250|UniProtKB:P35831}. Note=Partial translocation to focal adhesion sites may be mediated by interaction with SORBS2.

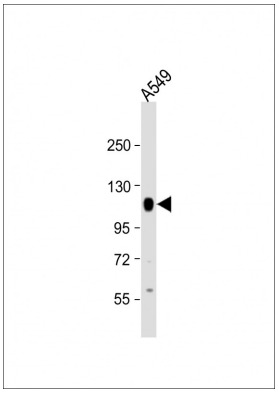
Background

Dephosphorylates cellular tyrosine kinases, including PTK2B/PYK2, and thereby regulates signaling via PTK2B/PYK2.

References

Takekawa M.,et al.Biochem. Biophys. Res. Commun. 189:1223-1230(1992).
Yang Q.,et al.J. Biol. Chem. 268:6622-6628(1993).
Yang Q.,et al.J. Biol. Chem. 268:17650-17650(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

Images



Anti-PTPN12 Antibody (C-Term) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 88 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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