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PTPD1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8424a

Product Information

Application	IHC-P, WB, E
Primary Accession	Q16825
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB0623-0624
Calculated MW	133281
Antigen Region	751-780

Additional Information

Gene ID	11099
Other Names	Tyrosine-protein phosphatase non-receptor type 21, Protein-tyrosine phosphatase D1, PTPN21, PTPD1
Target/Specificity	This PTPD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 751-780 amino acids from the Central region of human PTPD1.
Dilution	IHC-P~~1:100~500 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	PTPD1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTPN21
Synonyms	PTPD1
Cellular Location	Cytoplasm, cytoskeleton.

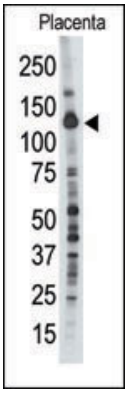
Background

PTPD1 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 contains an N-terminal domain, similar to cytoskeletal- associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis.

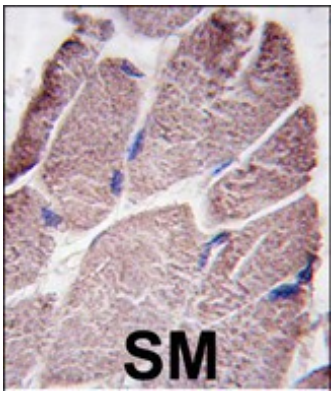
References

Jui, H.Y., et al., J. Biol. Chem. 275(52):41124-41132 (2000).
Tokuchi, H., et al., Int J Urol 6(11):572-577 (1999).
Higashitsuji, H., et al., Oncogene 10(2):407-414 (1995).
Moller, N.P., et al., Proc. Natl. Acad. Sci. U.S.A. 91(16):7477-7481 (1994).

Images



Western blot analysis of anti-PTPD1 Pab (Cat. #AP8424a) in Placenta tissue lysate (35ug/lane). PTPD1(arrow) was detected using the purified Pab



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PTPD1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- BMX Negatively Regulates BAK Function, Thereby Increasing Apoptotic Resistance to Chemotherapeutic Drugs.

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