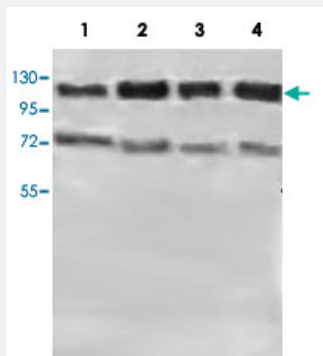


PTPN12 polyclonal antibody

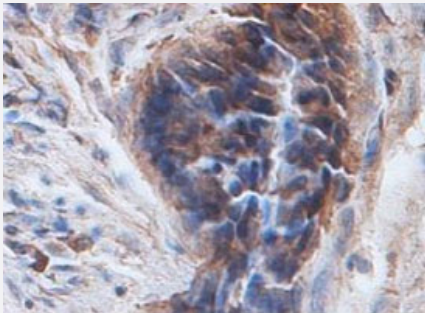
Catalog # PAB18893 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of HeLa (Lane 1), MCF-7 (Lane 2), HepG2 (Lane 3) and HEK293 (Lane 4) lysate with PTPN12 polyclonal antibody (Cat # PAB18893) at 1 : 500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of formalin-fixed paraffin-embedded human colon carcinoma tissue showing cytoplasmic staining with PTPN12 polyclonal antibody (Cat # PAB18893) at 1 : 100 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant PTPN12.
Immunogen	Recombinant protein corresponding to amino acids 544-771 of human PTPN12.
Host	Rabbit
Reactivity	Human
Form	Liquid

Recommend Usage	ELISA (1:10000-1:80000) Western Blot (1:200-1:1000) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In buffer containing 0.02% sodium azide
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa (Lane 1), MCF-7 (Lane 2), HepG2 (Lane 3) and HEK293 (Lane 4) lysate with PTPN12 polyclonal antibody (Cat # PAB18893) at 1 : 500 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPN12

Entrez GeneID	5782
Protein Accession#	NM_002835
Gene Name	PTPN12
Gene Alias	PTP-PEST, PTPG1
Gene Description	protein tyrosine phosphatase, non-receptor type 12
Omim ID	600079
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAK beta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]

Other Designations

OTTHUMP00000025119|protein-tyrosine phosphatase G1|tyrosine-protein phosphatase non-receptor type 12

Disease

- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Graves Ophthalmopathy](#)
- [Kidney Failure](#)