

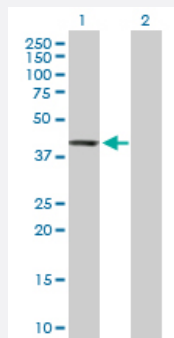
MaxPab®

## PTPN7 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00005778-D01P

Size 100 ug

### Applications

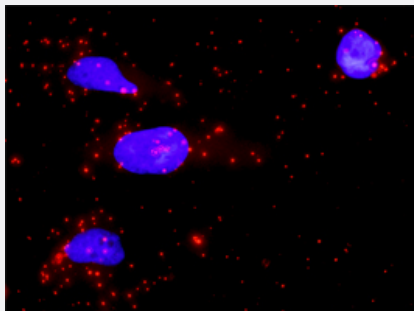


#### Western Blot (Transfected lysate)

Western Blot analysis of PTPN7 expression in transfected 293T cell line ([H00005778-T03](#)) by PTPN7 MaxPab polyclonal antibody.

Lane 1: PTPN7 transfected lysate(40.50 KDa).

Lane 2: Non-transfected lysate.



#### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PTPN7 and MAPK1. HeLa cells were stained with anti-PTPN7 rabbit purified polyclonal 1:1200 and anti-MAPK1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

### Specification

#### Product Description

Rabbit polyclonal antibody raised against a full-length human PTPN7 protein.

#### Immunogen

PTPN7 (NP\_002823.2, 1 a.a. ~ 360 a.a) full-length human protein.

#### Sequence

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRSLGAVEPICS  
VNTPREVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTL  
PNPQSRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQGMPNTVSDFWEMVWQEEVSLVM  
LTQLREGKEKCVHYWPTEETYGPFQIRIQDMKECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQ  
TPESAGPLLRLVAEVEESPETAHPGPVIVHCSAGIGRTGCFIATRIGCQQLKARGEVDILGIVCQL  
RLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

#### Host

Rabbit

Reactivity	Human
Interspecies Antigen Sequence	Mouse (92); Rat (91)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

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## Gene Info — PTPN7

Entrez GeneID	<a href="#">5778</a>
GeneBank Accession#	<a href="#">NM_002832.2</a>
Protein Accession#	<a href="#">NP_002823.2</a>
Gene Name	PTPN7
Gene Alias	BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI
Gene Description	protein tyrosine phosphatase, non-receptor type 7
Omim ID	<a href="#">176889</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

The protein encoded by this gene 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 gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The noncatalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

OTTHUMP00000034115|dual specificity phosphatase 1|hematopoietic protein-tyrosine phosphatase|protein-tyrosine phosphatase, nonreceptor-type, stress induced

**Pathway**

- [MAPK signaling pathway](#)