

PTPN7 Polyclonal antibody

Catalog Number: 15286-1-AP

3 Publications

Basic Information

Catalog Number:

15286-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7453

GenBank Accession Number:

BC001746

GeneID (NCBI):

5778

UNIPROT ID:

P35236

Full Name:

protein tyrosine phosphatase, non-receptor type 7

Calculated MW:

41 kDa

Observed MW:

38-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:200-1:800

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Raji cells, K-562 cells

IHC: human tonsillitis tissue, human lymphoma tissue

Background Information

PTPN7, also known as haematopoietic PTP (HePTP), belongs to the R7 family of protein tyrosine phosphatases (PTPs) which all contain a conserved 16 amino acid sequence at their N-termini (PMID: 9857190). PTPN7, via negative regulation of MAPK signalling, plays a key role in T-cell and B-cell development and is the only known PTP whose expression in T-lymphocytes is induced by IL-2 (PMID: 15980098). PTPN7 is a 38 kDa non-receptor PTP expressed predominately in leukocytes, spleen and thymus (PMID: 1530918, 24265715, 19636879).

Notable Publications

Author	Pubmed ID	Journal	Application
Fengxu Wang	36226189	Front Genet	IHC
Yihan Wang	35155446	Front Cell Dev Biol	WB
Xiang Ji	38581214	Environ Toxicol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

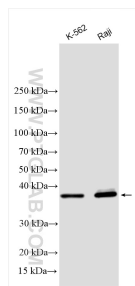
For technical support and original validation data for this product please contact:

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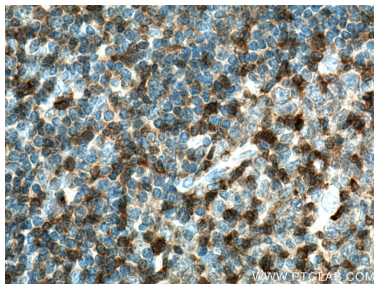
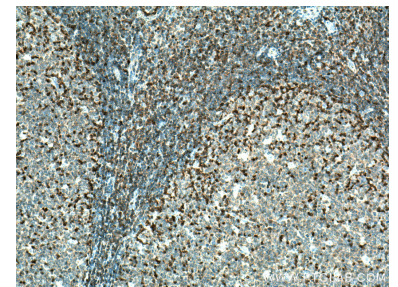
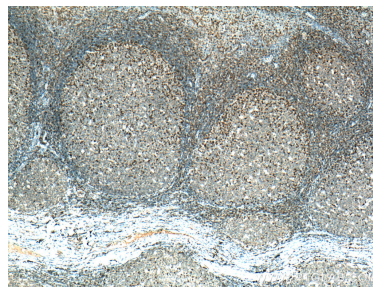
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15286-1-AP (PTPN7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15286-1-AP (PTPN7 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).