

Anti-PTPN7 Antibody

Catalog Number: A07600-1

About PTPN7

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).

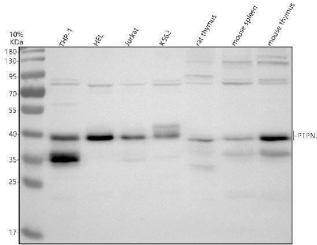
Overview

Product Name	Anti-PTPN7 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PTPN7 Antibody catalog # A07600-1. Tested in WB, IHC, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P35236

Technical Details

Immunogen	E.coli-derived human PTPN7 recombinant protein (Position: A3-E396).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 ELISA, 1:100-1000

Anti-PTPN7 Antibody (A07600-1) Images



Western blot analysis of PTPN7 using anti-PTPN7 antibody (A07600-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human THP-1 whole cell lysates, Lane 2: human HEL whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat thymus tissue lysates, Lane 6: mouse spleen tissue lysates, Lane 7: mouse thymus tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PTPN7 antigen affinity purified polyclonal antibody (A07600-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PTPN7 at approximately 38-40 kDa. The expected band size for PTPN7 is at 41 kDa.

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