

Recombinant Mouse PTPN11 cell lysate

Cat. No. PTPN11-1334MCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Mouse SHP2 / PTPN11 derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Mouse
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

Stability

Samples are stable for up to twelve months from date of receipt at -80°C

Storage Buffer

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

Storage Instruction

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name

[Ptpn11 protein tyrosine phosphatase, non-receptor type 11 \[Mus musculus \]](#)

Official Symbol

PTPN11

Synonyms

PTPN11; protein tyrosine phosphatase, non-receptor type 11; tyrosine-protein phosphatase non-receptor type 11; protein-tyrosine phosphatase SYP; SH2 domain-containing protein tyrosine phosphatase-2; Syp; Shp2; PTP1D; PTP2C; SAP-2; SHP-2; SH-PTP2; SH-PTP3; AW536184; 2700084A17Rik;

Gene ID

[19247](#)

mRNA Refseq

[NM_001109992](#)

Protein Refseq

[NP_001103462](#)

Pathway

Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling

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Pathway, organism-specific biosystem; CTLA4 inhibitory signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem;

Function

hydrolase activity; insulin receptor binding; insulin receptor substrate binding; non-membrane spanning protein tyrosine phosphatase activity; peptide hormone receptor binding; phosphatase activity; phospholipase binding; phosphoprotein phosphatase activity; protein binding; protein domain specific binding; protein tyrosine phosphatase activity; receptor tyrosine kinase binding;

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