

Recombinant Rat SIRPA cell lysate

Cat. No. SIRPA-1005RCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat SIRPA / SIRP alpha / CD172a derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Rat
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

Sirpa signal-regulatory protein alpha [*Rattus norvegicus*]

Official Symbol

SIRPA

Synonyms

SIRPA; signal-regulatory protein alpha; tyrosine-protein phosphatase non-receptor type substrate 1; sirp-alpha-1; SHP substrate 1; inhibitory receptor SHPS-1; macrophage fusion receptor; signal-regulatory protein alpha-1; CD172 antigen-like family member A; macrophage membrane protein MFP150; brain Ig-like molecule with tyrosine-based activation motifs; Brain immunoglobulin like protein with tyrosine - based activation motifs; Protein tyrosine phosphatase non-receptor type substrate 1 (SHP substrate 1); Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1); Bit; Ptpns1; SHPS-1;

Gene ID

25528

mRNA Refseq

NM_013016

Protein Refseq

NP_037148

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Pathway	Cell-Cell communication, organism-specific biosystem; IL-1 Signaling Pathway, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;
Function	SH3 domain binding; protein phosphorylated amino acid binding; protein phosphorylated amino acid binding;

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