

Recombinant Mouse ITK cell lysate

Cat. No. ITK-418MCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse ITK Kinase (aa 351-619) derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Mouse
Source	Insect Cells
ProteinLength	351-619 a.a.
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

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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 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

[Itk IL2 inducible T cell kinase \[Mus musculus \]](#)

Official Symbol

ITK

Synonyms

ITK; IL2 inducible T cell kinase; tyrosine-protein kinase ITK/TSK; kinase EMT; kinase TLK; T-cell-specific kinase; IL2-inducible T-cell kinase; IL-2-inducible T-cell kinase; interleukin-2-inducible T cell kinase; Emt; Tsk; Tcsk;

Gene ID

[16428](#)

mRNA Refseq

[NM_010583](#)

Protein Refseq

[NP_034713](#)

Pathway

Adaptive Immune System, organism-specific biosystem; B Cell Receptor Signaling

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Pathway, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Generation of second messenger molecules, organism-specific biosystem; Immune System, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem;

Function

ATP binding; kinase activity; metal ion binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; phospholipid binding; protein binding; protein kinase activity; protein tyrosine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;