

Recombinant Human ITK

Cat. No. ITK-29869TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 352-620 of human ITK with N terminal proprietary tag expressed in Sf9 cells, 53 kDa.
Species	Human
ProteinLength	352-620 a.a.
Description	This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein contains both SH2 and SH3 domains which are often found in intracellular kinases. It is thought to play a role in T-cell proliferation and differentiation.
Tissue specificity	T-cell lines and natural killer cell lines.
Biological activity	Specific Activity: 58 nmol/min/mg
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence	Belongs to the protein kinase superfamily. Tyr protein kinase family. TEC

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Similarities

subfamily.Contains 1 Btk-type zinc finger.Contains 1 PH domain.Contains 1 protein kinase domain.Contains 1 SH2 domain.Contains 1 SH3 domain.

GENE INFORMATION

Gene Name [ITK IL2-inducible T-cell kinase \[Homo sapiens \]](#)

Official Symbol [ITK](#)

Synonyms ITK; IL2-inducible T-cell kinase; tyrosine-protein kinase ITK/TSK; EMT; LYK; PSCTK2;

Gene ID [3702](#)

mRNA Refseq [NM_005546](#)

Protein Refseq [NP_005537](#)

MIM [186973](#)

Uniprot ID [Q08881](#)

Chromosome Location 5q31-q32

Pathway Adaptive Immune System, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class I PI3K signaling events, organism-specific biosystem;

Function ATP binding; metal ion binding; non-membrane spanning protein tyrosine kinase

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activity; nucleotide binding; protein binding;

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