ITK recombinant protein

ITK, Active

CATALOG #	HOST	APPLICATIONS
AAA73621	**Sf9 cells**	**Western Blot**

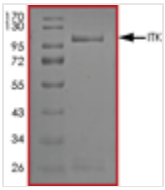
PRODUCT SYNONYMS

ITK; Active; EMT; LYK; PSCTK2; MGC126257; MGC126258; ITK recombinant protein

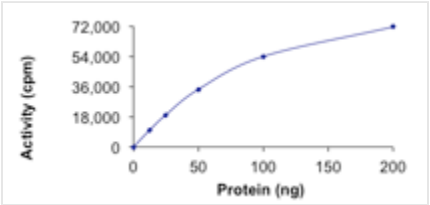
PRODUCT SPECIFICATIONS

Host	Sf9 cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for ITK recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for ITK recombinant protein	Full-length recombinant human ITK was expressed by baculovirus in Sf9 cells using an N-terminal GST tag. The gene accession number is NM_005546. ITK is a member of the TEC family of non-receptor tyrosine kinases. ITK is expressed in T-cells and is important for T-cell development and activation through the antigen receptor. ITK requires prior activation of LCK, ZAP70 and PI3-kinase for efficient activation and shares major substrates with both LCK and ZAP70 (1). ITK knockout mice show multiple effects on T cell development, cytokine production and T-helper cell differentiation. T cells that lack or express mutant versions of ITK show impaired TCR-induced actin polymerization, cell polarization and regulation of the signaling events involved in cytoskeletal reorganization (2).
Product Categories/Family for ITK recombinant protein	Protein Kinases; Cytoplasmic Tyrosine Kinases; Inflammation

References	1. August, A. et al: The Tec family of tyrosine kinases in T cells, amplifiers of T cell receptor signals. Int J Biochem Cell Biol. 2002 Oct;34(10):1184-9. 2. Finkelstein, L D. et al: Tec kinases: shaping T-cell activation through actin. Trends Cell Biol. 2004 Aug;14(8):443-51.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_005546
Molecular Weight	~108kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/itk-recombinant-protein-sf9-cells-wb-western-blot-kinase-assay/73621