LOK recombinant protein

LOK, Active

CATALOG #	HOST	APPLICATIONS
AAA73962	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

LOK; Active; STK10; PRO2729; LOK recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect 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 LOK 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 LOK recombinant protein	Recombinant human LOK (1-348) was expressed in Sf9 cells using a N-terminal GST tag. The gene accession number is NM_005990. LOK is a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. LOK can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression (1). LOK can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway. MEKK1 and LOK have opposing roles in regulating the enhancer element of the IL-2 gene during T-cell activation. While MEKK1 is responsible for the CD28 signalling pathway that activates the CD28 response element, co-expression of LOK attenuates these effects (2).
Product Categories/Family for LOK recombinant protein	Protein Kinases; Cardiovascular Disease; Ser/Thr Kinases

References	1. Walter, S A. et al: Stk10, a new member of the polo-like kinase kinase family highly expressed in hematopoietic tissue. J Biol Chem. 2003 May 16;278(20):18221-8. 2. Tao, L. et al: Opposing roles of serine/threonine kinases MEKK1 and LOK in regulating the CD28 responsive element in T-cells. Biochem J. 2002 Apr 1;363(Pt 1):175-82.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_005990
Molecular Weight	~65kDa

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/lok-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73962