

LKB1(STK11) recombinant protein

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CATALOG # AAA72921	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

LKB1(STK11); LKB1 (STK11) recombinant protein; STK11; LKB1; PJS; STK11 Protein; LKB1(STK11) recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5 , 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol
Concentration	0.2ug/ul (varies by lot)
Sequence Length	3286
Applicable Applications for LKB1(STK11) recombinant protein	WB (Western Blot), Kinase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human LKB1(STK11) was expressed by baculovirus in Sf9 insect cells
Gene Aliases	STK11, LKB1, PJS
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. Shipping: Dry Ice.

IMAGES



SDS-PAGE

The purity was determined to be >90% by densitometry. Approx. MW 85 kDa

ADDITIONAL INFORMATION

Related Product Information for LKB1(STK11) recombinant protein	Recombinant full-length human LKB1(STK11) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: LKB1(STK11) is a member of the serine/threonine kinase family which regulates cell polarity and functions as a tumor suppressor. STK11 is a critical barrier to pulmonary tumorigenesis which controlling initiation, differentiation, and metastasis. STK11 plays a central role in restricting HSC entry into cell cycle and in broadly maintaining energy homeostasis in hematopoietic cells through a novel metabolic checkpoint (1). STK11 serves as an essential regulator of HSCs and hematopoiesis, and more generally, points to the critical importance of coupling energy metabolism and stem cell homeostasis (2).
Product Categories/Family for LKB1(STK11) recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins
References	1. Gurumurthy, S. et.al: The Lkb1 metabolic sensor maintains haematopoietic stem cell survival. Nature 468: 659-663, 2010. Note: Erratum: Nature 476: 114 only, 2011. 2. Gan, B.et.al: Lkb1 regulates quiescence and metabolic homeostasis of haematopoietic stem cells. Nature 468: 701-704, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	58530881
NCBI GeneID	6794
NCBI Accession #	NP_000446.1
NCBI GenBank Nucleotide #	NM_000455
UniProt Accession #	Q15831; B2RBX7; E7EW76
Molecular Weight	~85 kDa
NCBI Official Full Name	Homo sapiens serine/threonine kinase 11 (STK11), mRNA
NCBI Official Synonym Full Names	serine/threonine kinase 11
NCBI Official Symbol	STK11
NCBI Official Synonym Symbols	PJS; LKB1; hLKB1
NCBI Protein Information	serine/threonine-protein kinase STK11; liver kinase B1; polarization-related protein LKB1; renal carcinoma antigen NY-REN-19; serine/threonine-protein kinase 11; serine/threonine-protein kinase LKB1
UniProt Protein Name	Serine/threonine-protein kinase STK11
UniProt Gene Name	STK11
UniProt Synonym Gene Names	LKB1; PJS; LKB1; hLKB1
UniProt Entry Name	STK11_HUMAN

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/stk11-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/72921>