Datasheet for ABIN6700493

LKB1 Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	LKB1 (STK11)
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LKB1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	STK11 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human LKB1 (STK11) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	LKB1 (STK11)
Alternative Name:	STK11 (STK11 Products)
Background:	Synonyms: STK11, LKB1, PJS, Serine/threonine-protein kinase STK11, Renal carcinoma antigen NY-REN-19 Background: LKB1 (STK11) is a member of the serine/threonine kinase family which regulates

Target Details

	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). SKT11 Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Apoptosis/Autophagy, Cancer, Cellular Stress, Metabolic Disorder, and Ser/Thr Kinases research.
NCBI Accession:	NM_000455
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process, Warburg Effect

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: STK11 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~85 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	STK11 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	Store product at -70°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.
Expiry Date:	12 months