abcam

Product datasheet

Recombinant Human LKB1 protein ab119736

1 Image

Overview

Product name	Recombinant Human LKB1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q15831
Species	Human
Molecular weight	85 kDa including tags
Amino acids	1 to 433

Specifications

Our Abpromise guarantee covers the use of **ab119736** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot SDS-PAGE
Purity	> 90 % SDS-PAGE. The purity was determined to be 90% by densitometry
Form	Liquid

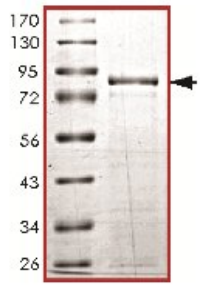
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.003% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol, 0.29% Sodium chloride

General Info

Function	Essential role in G1 cell cycle arrest. Phosphorylates and activates members of the AMPK-related subfamily of protein kinases. Tumor suppressor.
Tissue specificity	Ubiquitously expressed. Strongest expression in testis and fetal liver.
Involvement in disease	Defects in STK11 are a cause of Peutz-Jeghers syndrome (PJS) [MIM:175200]. PJS is a rare hereditary disease in which there is predisposition to benign and malignant tumors of many organ systems. PJS is an autosomal dominant disorder characterized by melanocytic macules of the lips, multiple gastrointestinal hamartomatous polyps and an increased risk for various neoplasms, including gastrointestinal cancer. Defects in STK11 have been associated with testicular tumors (TEST) [MIM:273300]. A common solid malignancy in males. Germ cell tumors of the testis constitute 95% of all testicular neoplasms.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. LKB1 subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylated by a cAMP-dependent protein kinase.
Cellular localization	Nucleus. Cytoplasm. Relocates to the cytoplasm when bound to CAB39 and STRAD or CAB39 and ALS2CR2.

Images



SDS-PAGE - LKB1 protein (ab119736)

The purity was determined to be >90% by densitometry.

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