

Product datasheet

Anti-LKB1 antibody [Ley 37D/G6] ab15095

KO VALIDATED

★★★★☆ 12 Abreviews 37 References 2 Images

Overview

Product name	Anti-LKB1 antibody [Ley 37D/G6]
Description	Mouse monoclonal [Ley 37D/G6] to LKB1
Host species	Mouse
Specificity	This antibody detects a single clean band representing LKB1/STK11 in Western blots on cells expressing LKB1.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant full length protein corresponding to Human LKB1. Database link: Q15831
Positive control	HAP1 and MEF cell lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 1% BSA, PBS
Clonality	Monoclonal
Clone number	Ley 37D/G6
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab15095 in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★★ (6)	1/100 - 1/1000. Detects a band of approximately 50 kDa (predicted molecular weight: 48.6 kDa).

Target

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.

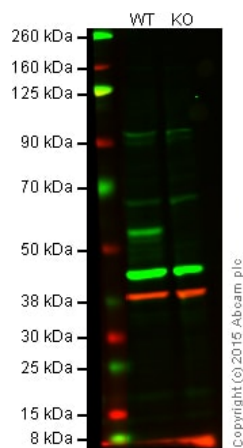
Post-translational modifications

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



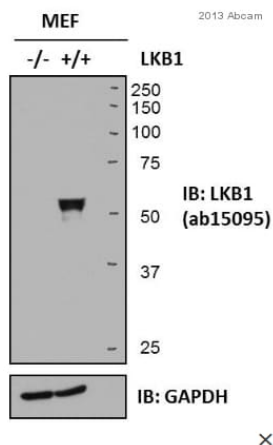
Western blot - Anti-LKB1 antibody [Ley 37D/G6] (ab15095)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: LKB1 knockout HAP1 cell lysate (20 µg)

Lanes 1 and 2: Merged signal (red and green). Green - ab15095 observed at 50 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab15095 was shown to recognize LKB1 when LKB1 knockout samples were used, along with additional cross-reactive bands. Wild-type and LKB1 knockout samples were subjected to SDS-PAGE. ab15095 and **ab181602** (loading control to LKB1) were diluted 1/100 and 1/10 000 and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-LKB1 antibody [Ley 37D/G6] (ab15095)

Image courtesy of anonymous abreviewer

All lanes : Anti-LKB1 antibody [Ley 37D/G6] (ab15095) at 1/1000 dilution

All lanes :

Secondary

All lanes : Polyclonal goat anti-mouse conjugated with horse radish peroxidase.

Predicted band size: 48.6 kDa

Observed band size: 55 kDa

Negative control (Lane 1): LKB1 knockout MEF cells.

Positive control (Lane 2): wildtype MEF cells.

Blocking step: 5% milk as blocking agent for 1 hour at 25 °C.

Incubation: 16 hours at 4 °C, using 5% milk in TBS/0.1 Tween as diluent.

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