

LKB1

CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS: Validated
TYPE: mouse anti human
CLONE NAME: LEY37D
PROTEIN: Serine/Threonine protein kinase 11
PROTEIN WEB: http://www.ncbi.nlm.nih.gov/protein/NP_000446.1
ANTIGEN USED: MBP-LKB1 (full length protein)
FUSION PARTNER: NS1/Ag4-1 (NS1) cells
ISOTYPE: IgG2b
SPECIES REACTIVITY: Human
PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

DESCRIPTION

This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. [provided by RefSeq, Jul 2008].

PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

Carretero J, Medina PP, Blanco R, Smit L, Tang M, Roncador G, Maestre L, Conde E, López-Ríos F, Clevers HC and Sánchez-Céspedes M. Dysfunctional AMPK activity, signalling through mTOR and survival in response to energetic stress in LKB1-deficient lung cancer. *Oncogene*. 2007 Mar 8;26(11):1616-25.

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Nicolas Humbert, Naveenan Navaratnam, Arnaud Augert, Marco Da Costa, Sébastien Martien, Jing Wang, Dolores Martinez, Corinne Abbadie, David Carling, Yvan de Launoit, Jesús Gil, David Bernard. Regulation of ploidy and senescence by the AMPK-related kinase NUA1. *The EMBO Journal*. 20 January 2010.

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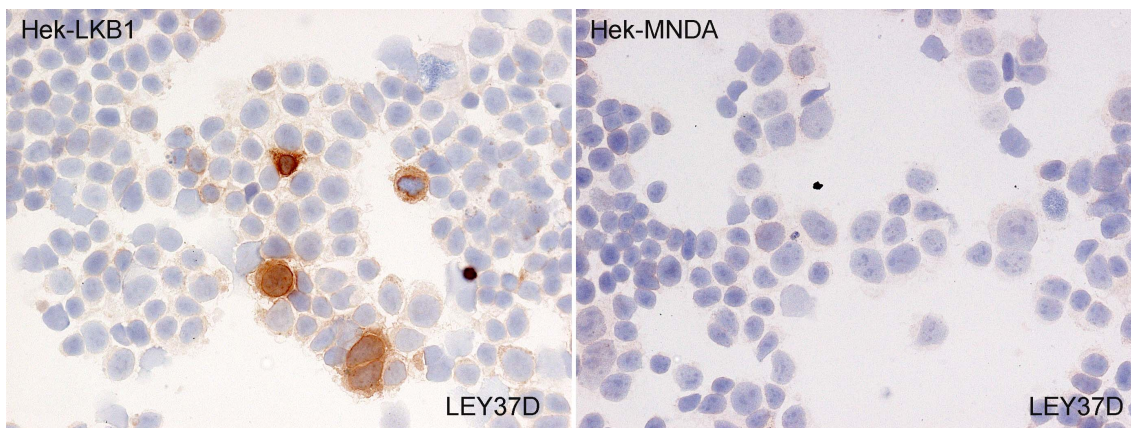
Ping Song, Zhonglin Xie, Yong Wu, Jian Xu, Yunzhou Dong, Ming-Hui Zou. Protein kinase C ζ -dependent LKB1 serine 428 phosphorylation

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APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopins									
Recommended	LEY37D	neat supernatant							
Paraffin tissue									
Immunofluorescence									

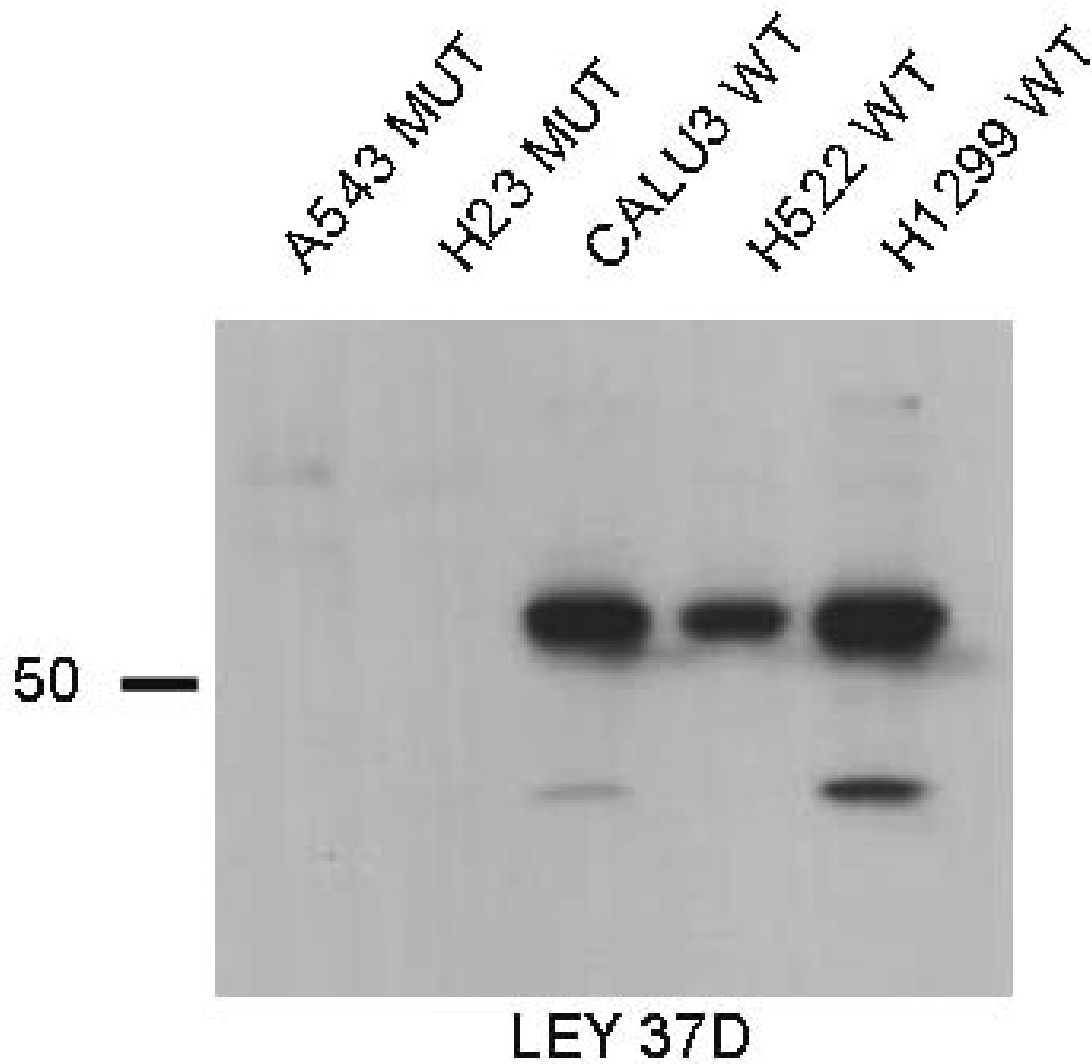


LKB1 antibody (LEY37D) in transfected cells

Monoclonal Antibodies Catalogue

LKB1 staining in transfected HEK293T/LKB1 cells. HEK293T/MNDA transfected cells were used as a negative control.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	LEY37D	0.0002mg/ ml						
Immunoprecipitation								



LEY37D mAb is able to detect human LKB1 protein by WB.

Lane 1 A543 MUT cell line (100ug) (-)

Lane 2 H23 MUT cell line (100ug) (-)

Lane 3 CALU3 WT cell line (100ug) (+)

Lane 4 H522 WT cell line (100ug) (+)

Lane 5 H1299 WT cell line (100ug) (+)