

## Rabbit anti-Human, Mouse LKB1 Polyclonal Antibody | anti-LKB1 antibody

LKB1 Polyclonal Antibody

|                               |                       |                                   |                                     |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA295164</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------|-------------------------------------|

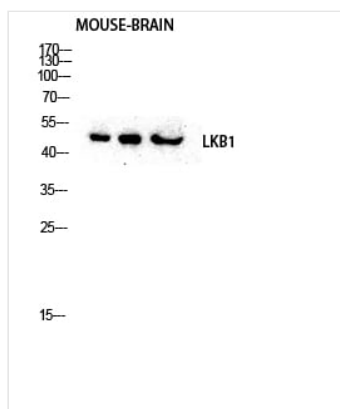
### PRODUCT SYNONYMS

LKB1; Polyclonal Antibody; LKB1 Polyclonal Antibody; STK11; PJS; Serine/threonine-protein kinase STK11; Liver kinase B1; hLKB1; Renal carcinoma antigen NY-REN-19; anti-LKB1 antibody

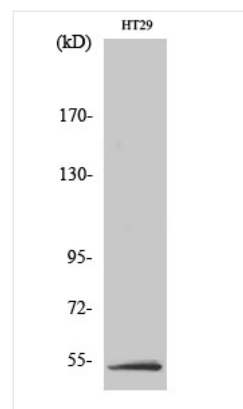
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human, Mouse                                                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-LKB1 antibody | WB (Western Blot)                                                                                                                                     |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

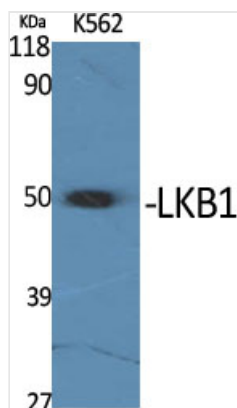
### IMAGES


**WB (Western Blot)**

Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.


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## ADDITIONAL INFORMATION

### Related Product Information for anti-LKB1 antibody

Tumor suppressor serine/threonine-protein kinase that controls the activity of AMP-activated protein kinase (AMPK) family members, thereby playing a role in various processes such as cell metabolism, cell polarity, apoptosis and DNA damage response. Acts by phosphorylating the T-loop of AMPK family proteins, thus promoting their activity: phosphorylates PRKAA1, PRKAA2, BRSK1, BRSK2, MARK1, MARK2, MARK3, MARK4, NUA1, NUA2, SIK1, SIK2, SIK3 and SNRK but not MELK. Also phosphorylates non- AMPK family proteins such as STRADA, PTEN and possibly p53/TP53. Acts as a key upstream regulator of AMPK by mediating phosphorylation and activation of AMPK catalytic subunits PRKAA1 and PRKAA2 and thereby regulates processes including: inhibition of signaling pathways that promote cell growth and proliferation when energy levels are low, glucose homeostasis in liver, activation of autophagy when cells undergo nutrient deprivation, and B-cell differentiation in the germinal center in response to DNA damage. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton. Required for cortical neuron polarization by mediating phosphorylation and activation of BRSK1 and BRSK2, leading to axon initiation and specification. Involved in DNA damage response: interacts with p53/TP53 and recruited to the CDKN1A/WAF1 promoter to participate in transcription activation. Able to phosphorylate p53/TP53; the relevance of such result in vivo is however unclear and phosphorylation may be indirect and mediated by downstream STK11/LKB1 kinase NUA1. Also acts as a mediator of p53/TP53-dependent apoptosis via interaction with p53/TP53: translocates to the mitochondrion during apoptosis and regulates p53/TP53-dependent apoptosis pathways. In vein endothelial cells, inhibits PI3K/Akt signaling activity and thus induces apoptosis in response to the oxidant peroxynitrite (in vitro). Regulates UV radiation-induced DNA damage response mediated by CDKN1A. In association with NUA1, phosphorylates CDKN1A in response to UV radiation and contributes to its degradation which is necessary for optimal DNA repair (PubMed:25329316).

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4507271                                                                                                                                                                                                |
| NCBI GeneID                      | 6794                                                                                                                                                                                                   |
| NCBI Accession #                 | NP_000446.1                                                                                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_000455.4                                                                                                                                                                                            |
| UniProt Accession #              | Q15831; B2RBX7; E7EW76                                                                                                                                                                                 |
| Molecular Weight                 | 48,636 Da                                                                                                                                                                                              |
| NCBI Official Full Name          | serine/threonine-protein kinase STK11                                                                                                                                                                  |
| 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          | <b>STK11</b>                          |
| 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://www.aaabiotech.com/polyclonal/lkb1-antibody-western-blot-elisa/295164>