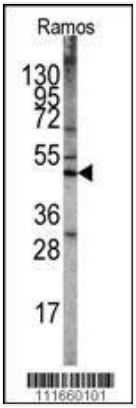
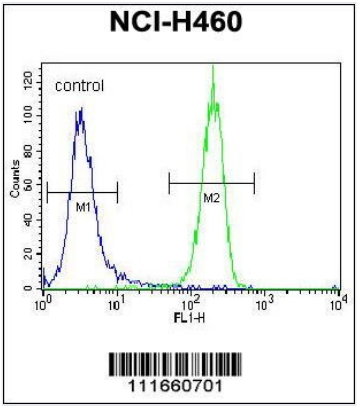
STK11 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

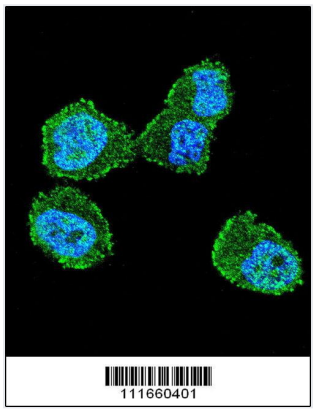
Product Name	STK11, Polyclonal Antibody
Full Product Name	STK11, NT (V34) (Serine/Threonine-protein Kinase 11, Serine/Threonine-protein Kinase LKB1, Renal Carcinoma Antigen NY-REN-19, LKB1, PJS) (AP)
Product Gene Name	anti-STK11 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human STK11.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	51.0kDa (456aa)
OMIM	175200
3D Structure	ModBase 3D Structure for Q15831
Immunogen	Synthetic peptide selected from the N-terminal region of human STK11 (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-STK11 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-STK11 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-STK11 antibody	WB: 1:250-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-STK11 antibody	MBS6501199 is an antibody targeting STK11. Also known as STK11, NT (V34) (Serine/Threonine-protein Kinase 11, Serine/Threonine-protein Kinase LKB1, Renal Carcinoma Antigen NY-REN-19, LKB1, PJS) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-STK11 antibody	1. Mart, et al., J. Biotechnol. 115(1):23-34 (2005). 2. Shaw, R.J., et al., Proc. Natl. Acad. Sci. USA 101(10):3329-3335 (2004). 3. Suzuki, A., et al., Biochem. Biophys. Res. Commun. 324(3):986-992 (2004). 4. Hearle, N., et al., Genes Chromosomes Cancer 41(2):163-169 (2004). 5. Corradetti, M.N., et al., Genes Dev. 18(13):1533-1538 (2004).
Other Notes	Small volumes of anti-STK11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-STK11 antibody
Western blot analysis of STK11 Antibody (N-term V34) in Ramos cell line lysates. STK11 was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-STK11 antibody
STK11 (LKB1) Antibody (N-term V34) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-STK11 antibody
Confocal immunofluorescent analysis of STK11 (LKB1) Antibody (N-term V34) with ZR-75-1 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STK11. It may not necessarily be applicable to this product.

NCBI GI #	4507271
NCBI GeneID	6794
NCBI Accession #	NP_000446
UniProt Primary Accession #	Q15831
UniProt Secondary Accession #	B2RBX7; E7EW76
UniProt Related Accession #	Q15831
GenBank Nucleotide #	NM_000455.4
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
UniProt Protein Name	Serine/threonine-protein kinase STK11
UniProt Synonym Protein Names	Liver kinase B1; LKB1; hLKB1; Renal carcinoma antigen NY-REN-19

Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	STK11
UniProt Synonym Gene Names	LKB1; PJS; LKB1; hLKB1
UniProt Entry Name	STK11_HUMAN
NCBI Protein Information	serine/threonine-protein kinase STK11
NCBI Summary for STK11	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. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for STK11	LKB1: a S/T protein kinase of the CAMKL family. A tumor suppressor that helps control cell structure, polarity, apoptosis and energy homeostasis. Phosphorylates AGS3 (activator of G-protein signaling 3) GPR domains, regulating the interaction of GPR-containing proteins with G-proteins. A cytosolic protein complex comprised of LKB1, the pseudokinase STRAD, and the MO25 scaffold protein. Activates AMPK and several related protein kinases. AMPK plays a predominant role as the master regulator of cellular energy homeostasis, controlling downstream effectors that regulate cell growth and apoptosis in response to cellular ATP concentrations. The Lkb1/Strad/Mo25 complex can polarize single epithelial cells, leading to the formation of a brush border containing microvilli on the apical surface. Mutation in the corresponding gene causes Peutz-Jeghers syndrome (PJS), an autosomal dominant disorder characterized by benign GI tract polyps and dark skin lesions of the mouth, hands and feet. A variety of other LKB1 gene mutations have been associated with the formation of sporadic cancers in several tissues. Protein type: Protein kinase, CAMK; Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Autophagy; Tumor suppressor; CAMK group; CAMKL family; LKB subfamily Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: mitochondrion; membrane; cytoplasm; nucleus; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; p53 binding; magnesium ion binding; protein complex binding; protein kinase activator activity; ATP binding; LRR domain binding Biological Process: Golgi localization; response to glucagon stimulus; protein heterooligomerization; protein amino acid autophosphorylation; Wnt receptor signaling pathway through beta-catenin; response to lipid; glucose homeostasis; T cell receptor signaling pathway; protein amino acid phosphorylation; anoikis; negative regulation of cell proliferation; positive regulation of gluconeogenesis; regulation of fatty acid biosynthetic process; vasculature development; tissue homeostasis; regulation of cell growth; cell cycle arrest; positive thymic T cell selection; regulation of Wnt receptor signaling pathway; positive regulation of transforming growth factor beta receptor signaling pathway; regulation of protein kinase B signaling cascade; positive regulation of peptidyl-tyrosine phosphorylation; axonogenesis; establishment of cell polarity; insulin receptor signaling pathway; activation of protein kinase activity; energy reserve metabolic process; autophagy; positive regulation of axonogenesis; negative regulation of cell growth; response to ionizing radiation; response to DNA damage stimulus; spermatid development Disease: Pancreatic Cancer; Testicular Germ Cell Tumor; Peutz-jeghers Syndrome
Research Articles on STK11	**1.** LKB1 overexpression inhibited apoptosis and activated autophagy of Eca109 cells following radiation treatment, as determined by flow cytometry and western blot analyses.
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