Product Datasheet

STK11 Antibody

Catalog No: #32612

Package Size: #32612-1 50ul #32612-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

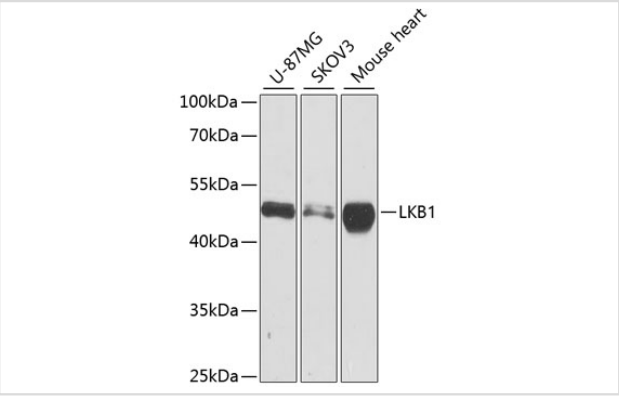
Description

Product Name	STK11 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total STK11 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human STK11.
Target Name	STK11
Other Names	LKB1; PJS;
Accession No.	Swiss-Prot:Q15831NCBI Gene ID:6794
Uniprot	Q15831
GeneID	6794;
SDS-PAGE MW	49KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

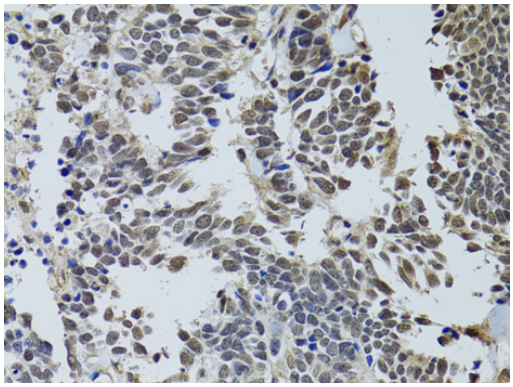
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

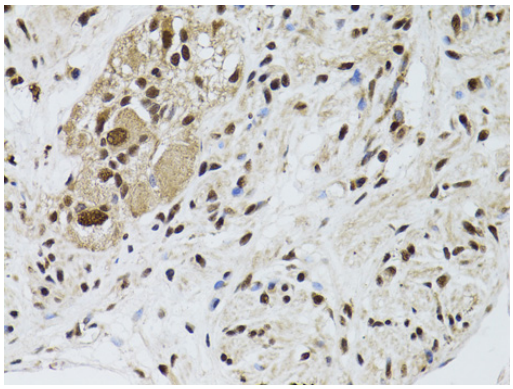
Images



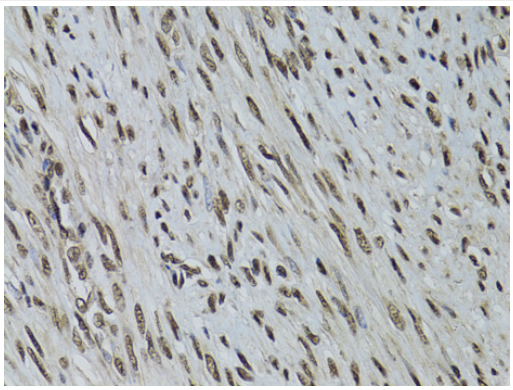
Western blot analysis of extracts of various cell lines, using LKB1 at 1:1000 dilution.



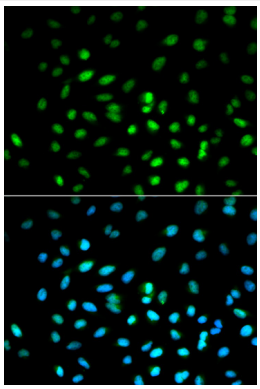
Immunohistochemistry of paraffin-embedded human lung cancer using LKB1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon carcinoma using LKB1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human uterine cancer using LKB1 at dilution of 1:100 (40x lens).



Immunofluorescence analysis of MCF-7 cells using LKB1 . Blue: DAPI for nuclear staining.

Background

LKB1 (STK11) is a serine/threonine kinase and tumor suppressor that helps control cell structure, apoptosis and energy homeostasis through regulation of numerous downstream kinases (1,2). A cytosolic protein complex comprised of LKB1, putative kinase STRAD, and the MO25 scaffold protein, activates both AMP-activated protein kinase (AMPK) and several AMPK-related kinases (3). 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 (4). LKB1 appears to be phosphorylated in cells at several sites, ?including human LKB1 at Ser31/325/428 and Thr189/336/363 (5).Mutation in the corresponding LKB1 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 (6). A variety of other LKB1 gene mutations have been associated with the formation of

sporadic cancers in several tissues (7).

Note: This product is for in vitro research use only