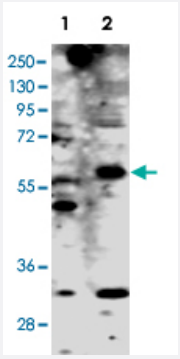
STK11 polyclonal antibody

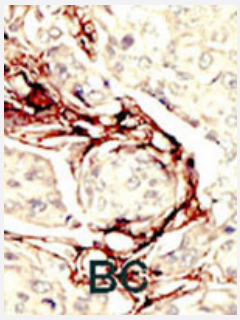
Catalog # PAB2804 Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of STK11 (arrow) using STK11 polyclonal antibody (Cat # PAB2804).
293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the STK11 gene (Lane 2).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with STK11 polyclonal antibody (Cat # PAB2804) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of STK11.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human STK11.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Western Blot (Transfected lysate)

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Gene Info — STK11

Entrez GeneID	6794
Protein Accession#	NP_000446;Q15831
Gene Name	STK11
Gene Alias	LKB1, PJS
Gene Description	serine/threonine kinase 11
Omim ID	175200 273300 602216
Gene Ontology	Hyperlink
Gene Summary	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-Jeg hers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gast rointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate trans criptional splice variants of this gene have been observed but have not been thoroughly characteri zed. [provided by RefSeq

Other Designations	polarization-related protein LKB1|serine/threonine protein kinase 11

Publication Reference

- An efficient expression system for the production of functionally active human LKB1.

  Martinez-Torrecuadrada JL, Romero S, Nunez A, Alfonso P, Sanchez-Cespedes M, Casal JI.

  Journal of Biotechnology 2005 Jan; 115(1):23.

- IGF-1 phosphorylates AMPK-alpha subunit in ATM-dependent and LKB1-independent manner.

  Suzuki A, Kusakai G, Kishimoto A, Shimojo Y, Ogura T, Lavin MF, Esumi H.

  Biochemical and Biophysical Research Communications 2004 Nov; 324(3):986.

- The tumor suppressor LKB1 kinase directly activates AMP-activated kinase and regulates apoptosis in response to energy stress.

  Shaw RJ, Kosmatka M, Bardeesy N, Hurley RL, Witters LA, DePinho RA, Cantley LC.

  PNAS 2004 Feb; 101(10):3329.

Pathway

- Adipocytokine signaling pathway
- mTOR signaling pathway

Disease

- Adenocarcinoma
- Alzheimer disease
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Colonic Neoplasms

- Colonic Polyps
- Diabetes Complications
- Diabetes Mellitus
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Hyperandrogenism
- Hyperinsulinism
- Insulin Resistance
- Long QT syndrome
- Lung Neoplasms
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms
- Peutz-Jeghers Syndrome
- Polycystic Ovary Syndrome
- Pulmonary Disease
- Torsades de Pointes
- Urinary Bladder Neoplasms
- Werner syndrome