

Recombinant Human STK11 protein, His-tagged

Cat. No. STK11-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STK11(1-430 aa) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-430 a.a.
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. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.
Form	Tris-based buffer, 50% glycerol
AA Sequence	MEVDPQQLG MFTEGELMSV GMDTFIHRID STEVIYQPRR KRAKLIGKYL MGDLLGEGSY GKVKEVLDSE TLCRRRAVKIL KKKKLRRIPN GEANVKKEIQ LLRRLRHKNV IQLVDVLYNE EKQKMYMVME YCVCGMQEML DSVPEKRFPV CQAHGYFCQL IDGLEYLHSQ GIVHKDIKPG NLLTTGGTL KISDLGVAEA LHPFAADDTC RTSQGSPAQ PPEIANGLDT FSGFKVDIWS AGVTLYNITT GLYPFEGDNI YKLFENIGKG SYAIPGDCGP PLSDLLKGML EYEPKRFSI RQIRQHSWFR KKHPPAEAPV PIPPSPDTKD RWRSMTVVPY LEDLHGADED EDLFDIEDDI IYTQDFTVPG QVPEEEASHN GQRRGLPKAV CMNGTEAAQL

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	STKSRAEGRA PNPARKACSA SSKIRRLSAC
Purity	>90% (SDS-PAGE)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
GENE INFORMATION	
Gene Name	STK11 serine/threonine kinase 11 [Homo sapiens]
Official Symbol	STK11
Synonyms	STK11; serine/threonine kinase 11; serine/threonine kinase 11 (Peutz Jeghers syndrome); serine/threonine-protein kinase STK11; LKB1; PJS; polarization related protein LKB1; liver kinase B1; polarization-related protein LKB1; renal carcinoma antigen NY-REN-19; serine/threonine-protein kinase 11; serine/threonine-protein kinase LKB1; hLKB1;
Gene ID	6794
mRNA Refseq	NM_000455
Protein Refseq	NP_000446
MIM	602216

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UniProt ID	Q15831
Chromosome Location	19p13.3
Pathway	AMPK inhibits chREBP transcriptional activation activity, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;
Function	ATP binding; LRR domain binding; magnesium ion binding; nucleotide binding; p53 binding; protein binding; protein kinase activator activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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