

Recombinant Human Serine/Threonine Kinase 16, His-tagged

Cat. No. STK16-2406H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human STK16 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography
Species	Human
Source	E.coli
Description	STK16, also known as serine/threonine-protein kinase 16, is a membrane-associated protein kinase that phosphorylates on serine and threonine residues. STK16 may be involved in secretory vesicle trafficking or intracellular signaling. Also this protein may have a role in regulating stromal-epithelial interactions that occur during ductal morphogenesis in the mammary gland. It is able to autophosphorylate on Tyr residue; it is however unclear whether it has tyrosine-protein kinase toward other proteins
Form	20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	37.2 kDa (329aa), confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHSSGLVPRGSH MGSHMGHALC VCSRGTVIID NKRYLFIQKL GEGGFSYVDL VEGLDHGHFY ALKRILCHEQQDREEAQREA DMHRLFNHPN ILRLVAYCLR ERGAKHEAWL LLPFFKRGTL WNEIERLKDK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GNFLTEDQILWLLLGICRGL EAIHAKGYAH RDLKPTNILL GDEGQPVLM
 LGSMNQACIH VEGSRQALT QDWAAQRCTISYRAPELFSV QSHCVIDERT
 DVWSLGCVLY AMMFGEOPYD MVFQKGDSVA LAVQNQLSIP
 QSPRHSSALRQLNSMMTV DPHQRPHIPL LSQLEALQPP APGQHTTQI

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

STK16serine/threonine kinase 16 [Homo sapiens]

Official Symbol

STK16

Synonyms

STK16; serine/threonine kinase 16;serine/threonine-protein kinase 16; MPSK; PKL12; EDPK; F52; FLJ39635; HPSK;KRCT; MGC16211; MPSK; MPSK1; Myristoylated and palmitoylated serine/threonineprotein kinase; Myristoylated and palmitoylated serine/threonine-proteinkinase; PKL12; Protein kinase expressed in day 12 fetal liver; Protein kinaseKrcT; Protein kinase PKL12; Serine/threonine kinase 16; Serine/threonineprotein kinase 16; Serine/threonine-protein kinase 16; Stk16; STK16_HUMAN;TGF beta stimulated factor 1; TGF-beta-stimulated factor 1; TGFB stimulatedfactor 1; Transforming growth factor beta stimulated factor 1; TSF-1; TSF1;hPSK; TSF-1; OTTHUMP00000205887; OTTHUMP00000205888; OTTHUMP00000205889;OTTHUMP00000205890; OTTHUMP00000205891; protein kinase PKL12; TGF-beta-stimulatedfactor 1; tyrosine-protein kinase STK16; protein kinase expressed in day 12fetal liver; myristoylated and palmitoylated serine/threonine-protein kinase;KRCT; TSF1

Gene ID

8576

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mRNA Refseq	NM_001008910
Protein Refseq	NP_001008910
MIM	604719
Uniprot ID	O75716
Chromosome Location	2q35
Function	ATP binding; DNA binding;non-membrane spanning protein tyrosine kinase activity; nucleotide binding;protein binding
PDB rendering based on 2buj.	