

**STK16, 1-305aa, Human, His tag, E.coli**

**Cat.NO.: TP04063**

3th Edition

**Synonyms:** Serine/threonine-protein kinase 16, KRCT, MPSK, PKL12, TSF1

**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 able to autophosphorylate on Tyr residue; it is however unclear whether it has tyrosine-protein kinase toward other proteins. Recombinant human STK16 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

**Molecular Weight:** 37.2 kDa (329aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMGHALCVCSRGTVIDNKRYLFIQKLGEGGFSYVDLVEGLHDGHFYALKRIL  
CHEQQDREEAQREADMHRLFNHPNLRVAYCLRERGAKEAWLLLPFFKRGTLWNEIERLKDKNFLTEDQILWL  
LLGICRGLAIIHAKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIHVEGSRQALTLQDWAAQRCTISYRAPELFS  
VQSHCVIDERTDVWSLGCVLYAMMFEGEPYDMVFQKGDSVALAVQNQLSIPQSPRHSSALRQLLNSMMTVDPHQ  
RPHIPLLLSQLEALQPPAPGQHTTQI

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.