

Recombinant Human Serine/Threonine Kinase 10, GST-tagged, Active

Cat. No. STK10-343H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LOK (1-348) was expressed by baculovirus in <i>Sf9</i> insect cell/susing a N-terminal GST tag. MW = 65 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1-348 a.a.
Description	LOK is a member of the Ste20 family of serine/threonine protein kinases, and is similar to several known polo-like kinase kinases. LOK can associate with and phosphorylate polo-like kinase 1, and overexpression of a kinase-dead version of the protein interferes with normal cell cycle progression. LOK can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway. MEKK1 and LOK have opposing roles in regulating the enhancer element of the IL-2 gene during T-cell activation. While MEKK1 is responsible for the CD28 signalling pathway that activates the CD28 response element, co-expression of LOK attenuates these effects.
Sequence	1-348.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after

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centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	STK10 serine/threonine kinase 10 [Homo sapiens]
Synonyms	STK10; serine/threonine kinase 10;LOK; PRO2729; lymphocyte-oriented kinase; EC 2.7.11.1
Gene ID	6793
mRNA Refseq	NM_005990
Protein Refseq	NP_005981
MIM	603919
UniProt ID	O94804
Chromosome Location	5q35.1
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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