Recombinant Protein Technical Manual

Recombinant Human STK10/LOK Protein (His Tag)(Active)

RPES2640

Product Data:

Product SKU: RPES2640

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: NP_005981.3

Protein Information:

Molecular Mass:	36 kDa
AP Molecular Mass:	40 kDa
Tag:	N-His
Bio-activity:	The specific activity was determined to be 1353 nmol/min/mg using synthetic AXLtide peptide (KKSRGDYMTMQIG) as substrate.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	Please contact us for more information.
Storage:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping:	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.
Formulation:	Supplied as sterile 20mM Tris, 500mM NaCl, pH 8.0
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	LOK;PRO2729

Immunogen Information:

Sequence: Arg 18-Glu 317

Background:

Serine / threonine-protein kinase 10, also known as Lymphocyte-oriented kinase, STK10 and LOK, which belongs to the protein kinase superfamily, STE Ser / Thr protein kinase family and STE20 subfamily. Protein kinases constitute a large superfamily of enzymes with key regulatory functions in nearly all signal transmission processes of eukaryotic cells. The Ste20 family of serine/threonine kinases plays an important role in numerous cellular functions such as growth, apoptosis, and morphogenesis. STK10 is similar to several known polo-like kinase kinases. It 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. STK10 can also negatively regulate interleukin 2 expression in T-cells via the mitogen activated protein kinase kinase 1 pathway. Stk10 can associate with Plk1 in cells and furthermore can phosphorylate Plk1. It can also act on substrates such as myelin basic protein and histone 2A on serine and threonine residues.