

Datasheet for ABIN7197933

STK16 Protein (NusA Tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	STK16
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STK16 protein is labelled with NusA Tag,His tag.

Product Details

Purpose:	Recombinant Human STK16/PKL12/MPSK Protein (His & NusA Tag)
Sequence:	Met 1-Ile 305
Characteristics:	A DNA sequence encoding the native human STK16 (AAH02618.1) (Met 1-Ile 305) was fused with the polyhistidine-tagged NusA tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.

Target Details

Target:	STK16
Alternative Name:	STK16/PKL12/MPSK (STK16 Products)
Background:	Background: Serine/threonine-protein kinase 16, also known as myristoylated and palmitoylated serine/threonine-protein kinase, Protein kinase PKL12, TGF-beta-stimulated factor 1, TSF-1, MPSK1 and STK16, is a membrane protein which is ubiquitously expressed at very low levels. STK16 / MPSK1 belongs to the protein kinase superfamily and Ser/Thr protein

Target Details

kinase family. It contains one protein kinase domain. Transforming growth factor-beta (TGF-beta) shows a variety of biological activities in various organs or cells. Some factors such as Smads (Sma and Mad proteins) and TGF-beta activating kinase 1 have been characterized as signalling molecules downstream of TGF-beta. Several TGF-beta response elements have been identified such as cAMP response element, Smad binding element, and recognition sites for activating protein-1 and stimulating protein-1 in various gene promoters. STK16 / MPSK1 is a unique factor with two biological functions, transcriptional regulation and protein phosphorylation, that may be involved in TGF-beta signals. STK16 / MPSK1 is a protein kinase that act on both serine and threonine residues. STK16 / MPSK1 possessed DNA-binding ability and activated the TGF-beta responsive CNP promoter or vascular endothelial growth factor gene promoter which possesses a sequence element analogous to the TGF-beta responsive GC-rich element of the CNP promoter. STK16 / MPSK1 did not directly activate a Smads-dependent promoter from plasminogen activator inhibitor 1 gene, but it showed enhancement in co-operation with Smad3 and Smad4. STK16 / MPSK1 mRNA as well as its protein level were stimulated by TGF-beta treatment.

Synonym: KRCT;MPSK;PKL12;TSF1

Molecular Weight: 92 kDa

Application Details

Restrictions: For Research Use only

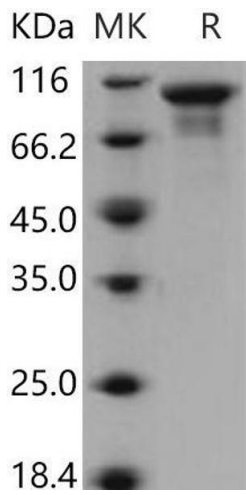
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile PBS, pH 7.4

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.