Recombinant Human STK40 Protein (His & GST Tag)

Catalog No. PKSH030358

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Synonyms	SgK495;SHIK	
Species	Human	
Expression Host	Baculovirus-Insect Cells	
Sequence	Met 1-Lys 435	
Accession	NP_114406	
Calculated Molecular Weight	76.8 kDa	
Observed molecular weight	85 kDa	
Tag	N-His-GST	
Bioactivity	Not validated for activity	
Properties		
Purity	> 97 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Storage	Store at $< -20^{\circ}$ 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 $< -20^{\circ}$ C.	
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 10% glycerol, 3mM DTT, 0.5M Urea, 0.5mM GSH, pH 8.0	
Reconstitution	Not Applicable	
Data		

KDa	MK
116	and the second second
66.2	
45.0	Elabsolo
35.0	-
	Elabscien
25.0	-
10.0	lence
18.4	-
14.4	-

> 97 % as determined by reducing SDS-PAGE.

Background

STK40 localized to both the cytoplasm and the nucleus. It is ubiquitously expressed. Mechanistically, Stk40 interacts with Rcn2, which also activates Erk1/2 to induce ExEn specification in mouse ESCs. Stk40 is able to activate the Erk/MAPK pathway and induce extraembryonic-endoderm (ExEn) differentiation in mouse ESCs. Interestingly, cells overexpressing Stk40 exclusively contribute to the ExEn layer of chimeric embryos when injected into host blastocysts. In contrast, deletion of Stk40 in ESCs markedly reduces ExEn differentiation in vitro. STK40 has a central serine/threonine protein

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kinase domain and is homologous to TRB-3, a protein that regulates activation of MAP kinases and inhibits NF κ Bmediated gene transcription. Similarly, overexpression of STK40 inhibits NF κ B activation triggered by TNF and also inhibits p53-mediated transcription. There are four named isoforms of STK40 that are produced as a result of alternative splicing.

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