

Datasheet for 009-001-U57S**VLK protein-GST fusion****Overview**

Description:	VLK recombinant protein-GST fusion protein - 009-001-U57S
Item No.:	009-001-U57S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	VLK or vertebrate lonesome kinase is a protein kinase which is first expressed in E-cadherin-positive anterior visceral endoderm and mesendoderm, and later its expression is confined to E-cadherin-negative mesenchyme. VLK regulates the rate of protein export from the Golgi and thereby plays an important role in the formation of functional stroma by mesenchymal cells (1). Targeted disruption of VLK leads to a defect in lung development and delayed ossification of endochondral bone. VLK deficient mice display neonatal lethality due to respiratory failure, with a suckling defect arising from a cleft palate. VLK is required for the appropriate timing of flat proliferative chondrocyte differentiation (2). VLK Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Cancer, Cytoplasmic Tyrosine Kinases, Invasion/Metastasis, Neurobiology, and Ser/Thr Kinases research.
Synonyms:	SGK493, PKDCC, Protein kinase domain-containing protein, cytoplasmic, Protein kinase-like protein Sgk493, Sugen kinase 493, Vertebrate lonesome kinase
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	PKDCC
Purity/Specificity:	Recombinant human VLK (129-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal his epitope. The purity was determined to be >70% by densitometry.
Relevant Links:	• NCBI - NM_138370

Application Details

Application Note:	VLK Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. VLK Protein is suitable for use in Western Blot. Expect a band approximately ~69kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.05ug/ul
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

