Datasheet for ABIN2724292

KLF4 Protein (Myc-DYKDDDDK Tag)

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Overview

Quantity:	20 µg
Target:	KLF4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLF4 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

Product Details

Characteristics:	• Recombinant human KLF4 protein expressed in HEK293 cells. • Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	KLF4
Alternative Name:	Klf4 (KLF4 Products)
Background:	This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting

Target Details

	from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Weight:	49.9 kDa
NCBI Accession:	NP_004226
Pathways:	Peptide Hormone Metabolism, Stem Cell Maintenance

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

Concentration:	50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in:	Soufi, Garcia, Jaroszewicz, Osman, Pellegrini, Zaret: "Pioneer transcription factors target partial DNA motifs on nucleosomes to initiate reprogramming." in: **Cell**, Vol. 161, Issue 3, pp. 555-68, (2015) (PubMed). Verrier, Kochanek, Jackson: "Schwann Cells Metabolize Extracellular 2',3'-cAMP to 2'-AMP." in: **The Journal of pharmacology and experimental therapeutics**, Vol. 354, Issue 2, pp. 175-83, (2015) (PubMed). Miyaji, Shahrizaila, Umapathi, Chan, Hirata, Yuki: "Are ERM (ezrin/radixin/moesin) proteins targets for autoantibodies in demyelinating neuropathies?" in: **Human immunology**, Vol. 75, Issue 11, pp. 1089-91, (2015) (PubMed).

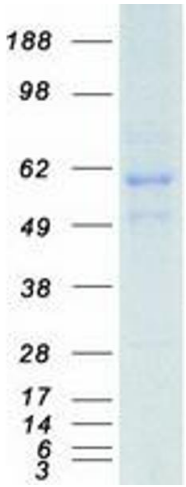
Publications

Venkatesh, Johung, Caretti, Noll, Tang, Nagaraja, Gibson, Mount, Polepalli, Mitra, Woo, Malenka, Vogel, Bredel, Mallick, Monje: "Neuronal Activity Promotes Glioma Growth through Neuroligin-3 Secretion." in: **Cell**, Vol. 161, Issue 4, pp. 803-16, (2015) (PubMed).

He, Schepmoes, Shi, Wu, Fillmore, Gao, Smith, Qian, Rodland, Liu, Camp, Rastogi, Tan, Yan, Mohamed, Huang, Banerjee, Kagan, Srivastava, McLeod, Srivastava, Petrovics, Dobi, Srinivasan: "Analytical platform evaluation for quantification of ERG in prostate cancer using protein and mRNA detection methods." in: **Journal of translational medicine**, Vol. 13, pp. 54, (2015) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Validation with Western Blot