

Recombinant Human KLF4 293 Cell Lysate

Cat. No. KLF4-4927HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for Kruppel-like factor 4 (gut) (KLF4) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KLF4 Kruppel-like factor 4 (gut) [Homo sapiens]
Official Symbol	KLF4
Synonyms	KLF4; Kruppel-like factor 4 (gut); Krueppel-like factor 4; EZF; GKLF; gut-enriched krueppel-like factor; epithelial zinc finger protein EZF; endothelial Kruppel-like zinc finger protein;
Gene ID	9314
mRNA Refseq	NM_004235
Protein Refseq	NP_004226
MIM	602253
UniProt ID	O43474
Chromosome Location	9q31
Pathway	Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Synthesis, Secretion, and Deacylation of Ghrelin, organism-specific biosystem; Transcriptional Regulation of White Adipocyte Differentiation, organism-specific biosystem;

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Function

DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; phosphatidylinositol 3-kinase regulator activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; transcription regulatory region DNA binding; transcription regulatory region DNA binding; zinc ion binding;

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