Recombinant Human GATA4 293 Cell Lysate

Cat. No. GATA4-6010HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for GATA binding protein 4 (GATA4) 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.

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

GENE INFORMATION

Gene Name	GATA4 GATA binding protein 4 [Homo sapiens]
Official Symbol	GATA4
Synonyms	GATA4; GATA binding protein 4; transcription factor GATA-4; GATA-binding factor 4; ASD2; VSD1; MGC126629;
Gene ID	2626
mRNA Refseq	NM_002052
Protein Refseq	NP_002043
MIM	600576
UniProt ID	P43694
Chromosome Location	8p23.1-p22
Pathway	Adipogenesis, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Heart Development, organism-specific biosystem; Hemostasis, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem;

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	Metabolism, organism-specific biosystem;
Function	DNA binding; RNA polymerase II regulatory region sequence-specific DNA binding; RNA polymerase II transcription factor binding transcription factor activity; activating transcription factor binding; chromatin binding; metal ion binding; protein binding; sequence-specific DNA binding; contributes_to sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; zinc ion binding;

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