Recombinant Human MAFA 293 Cell Lysate

Cat. No. MAFA-4562HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for v-maf musculoaponeurotic fibrosarcoma oncogene homolog A (avian) (MAFA) 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	MAFA v-maf musculoaponeurotic fibrosarcoma oncogene homolog A (avian) [Homo sapiens]
Official Symbol	MAFA
Synonyms	MAFA; v-maf musculoaponeurotic fibrosarcoma oncogene homolog A (avian); transcription factor MafA; hMafA; RIPE3b1; transcription factor RIPE3b1; pancreatic beta-cell-specific transcriptional activator;
Gene ID	389692
mRNA Refseq	NM_201589
Protein Refseq	NP_963883
MIM	610303
UniProt ID	Q8NHW3
Chromosome Location	8q24.3
Pathway	Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem;

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	Regulation of gene expression in beta cells, organism-specific biosystem; Type II diabetes mellitus, organism-specific biosystem; Type II diabetes mellitus, conserved biosystem;
Function	DNA binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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