Recombinant Human HMGA1 293 Cell Lysate

Cat. No. HMGA1-5479HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for high mobility group AT-hook 1 (HMGA1), transcript variant 1 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	HMGA1 high mobility group AT-hook 1 [Homo sapiens]
Official Symbol	HMGA1
Synonyms	HMGA1; high mobility group AT-hook 1; high mobility group (nonhistone chromosomal) protein isoforms I and Y , HMGIY; high mobility group protein HMG-I/HMG-Y; HMG-I(Y); high mobility group protein R; high mobility group protein A1; nonhistone chromosomal high-mobility group protein HMG-I/HMG-Y; high-mobility group (nonhistone chromosomal) protein isoforms I and Y; HMG-R; HMGIY; HMGA1A; MGC4242; MGC4854; MGC12816;
Gene ID	3159
mRNA Refseq	NM_145899
Protein Refseq	NP_665906
MIM	600701
UniProt ID	P17096
Chromosome Location	6p21
Pathway	2-LTR circle formation, organism-specific biosystem; APOBEC3G mediated

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	resistance to HIV-1 infection, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Autointegration results in viral DNA circles, organism-specific biosystem; Disease, organism-specific biosystem; Early Phase of HIV Life Cycle, organism-specific biosystem; HIV Infection, organism-specific biosystem;
Function	5-deoxyribose-5-phosphate lyase activity; AT DNA binding; DNA binding; DNA-(apurinic or apyrimidinic site) lyase activity; enzyme binding; ligand-dependent nuclear receptor transcription coactivator activity; peroxisome proliferator activated receptor binding; protein binding; retinoic acid receptor binding; retinoid X receptor binding; sequence-specific DNA binding transcription factor activity; transcription factor binding;

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