

Recombinant Human FOXO1 293 Cell Lysate

Cat. No. FOXO1-6149HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for forkhead box O1 (FOXO1) 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 mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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GENE INFORMATION

Gene Name	FOXO1 forkhead box O1 [Homo sapiens]
Official Symbol	FOXO1
Synonyms	FOXO1; forkhead box O1; FKHR, forkhead homolog in rhabdomyosarcoma , FOXO1A; forkhead box protein O1; FKH1; forkhead box protein O1A; forkhead, Drosophila, homolog of, in rhabdomyosarcoma; FKHR; FOXO1A;
Gene ID	2308
mRNA Refseq	NM_002015
Protein Refseq	NP_002006
MIM	136533
UniProt ID	Q12778
Chromosome Location	13q14.1
Pathway	AKT phosphorylates targets in the nucleus, organism-specific biosystem; AKT-mediated inactivation of FOXO1A, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Angiotensin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem;
Function	DNA binding, bending; double-stranded DNA binding; protein binding; protein kinase

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binding; sequence-specific DNA binding; sequence-specific distal enhancer binding
RNA polymerase II transcription factor activity; transcription factor binding;

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