# Recombinant Human FOXO3 293 Cell Lysate

**Cat. No.** FOXO3-6148HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for forkhead box O3 (FOXO3), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC209846, OriGene Technologies, Inc.) 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

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| **Gene Name** | FOXO3 forkhead box O3 [ Homo sapiens ] |
| **Official Symbol** | FOXO3 |
| **Synonyms** | FOXO3; forkhead box O3; FKHRL1, FOXO3A; forkhead box protein O3; AF6q21; FOXO2; forkhead box O3A; forkhead in rhabdomyosarcoma-like 1; forkhead homolog (rhabdomyosarcoma) like 1; forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1; FKHRL1; FOXO3A; FKHRL1P2; MGC12739; MGC31925; DKFZp781A0677; |
| **Gene ID** | 2309 |
| **mRNA Refseq** | NM_001455 |
| **Protein Refseq** | NP_001446 |
| **MIM** | 602681 |
| **UniProt ID** | O43524 |
| **Chromosome Location** | 6q21 |
| **Pathway** | AKT phosphorylates targets in the nucleus, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Chemokine signaling pathway, |

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| | organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class I PI3K signaling events, organism-specific biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem; Developmental Biology, organism-specific biosystem; |
| **Function** | DNA binding; DNA binding, bending; double-stranded DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; |

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