

## Recombinant Human FOXO1 protein, MYC/DDK-tagged

Cat. No. FOXO1-146H    Lot. No. (See product label)

### SPECIFICATION

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| Product Overview | Recombinant Human FOXO1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.                                                                                                                                                                                                                                                                 |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                 |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                |
| Description      | This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. |
| Form             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                 |
| Molecular Mass   | 69.5 kDa                                                                                                                                                                                                                                                                                                                                              |
| Purity           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                           |
| Concentration    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                      |

### GENE INFORMATION

|           |                                        |
|-----------|----------------------------------------|
| Gene Name | FOXO1 forkhead box O1 [ Homo sapiens ] |
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| <b>Official Symbol</b>     | <b>FOXO1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | 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;                                                                                                                                                                                                                                          |
| <b>Gene ID</b>             | <b>2308</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | <b>NM_002015</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | <b>NP_002006</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | <b>136533</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | <b>Q12778</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 13q14.1                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | 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; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; |
| <b>Function</b>            | DNA binding, bending; double-stranded DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding;                                                                                                                                                                                                 |