

Recombinant Human FOXO1 protein, MYC/DDK-tagged

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

SPECIFICATION

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