

Recombinant Human FOXO1, His-tagged

Cat. No. FOXO1-28946TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 277-655 of Human FOXO1A with N terminal His tag; 379 amino acids, 49kDa.
Species	Human
Source	E.coli
ProteinLength	277-655 a.a.
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.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised: Reconstitute with 151 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

LQSGQEGAGDSPGSQFSKWPASPGSHSNDDFDNWSTFRPR TSSNASTISGRLSPI
MTEQDDLGEQDVHSMVYPPSAK MASTLPSLSEISNPENMENLLDNLNLLSSPTSL
TVSTQSS PGTMMQQTPCYSFAPPNTSLNSPSPNYQKYTYGQSSMS PLPQMPIQTL
QDNKSSYGGMSQYNCAPGLLKELLTSDS PPHNDIMTPVDPGVAQPNSRVLGQNV
MMGPNSVMSTYGSQ ASHNKMMNPSSHTHPGHAQQTSVNGRPLPHTVSTMPH T
SGMNRLTQVKTPVQVPLPHPMQMSALGGYSSVSSCNG YGRMGLLHQEKLPDLD
GMFIERLDCDMESIIRNDLMDGD TLDFNFDNVLPNQSFPHSVKTTTHSWVSG

Sequence Similarities

Contains 1 fork-head DNA-binding domain.

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;

Gene ID [2308](#)

mRNA Refseq [NM_002015](#)

Protein Refseq [NP_002006](#)

MIM [136533](#)

Uniprot ID [Q12778](#)

Chromosome Location 13q14.1

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Pathway

AKT phosphorylates targets in the nucleus, organism-specific biosystem; AKT-mediated inactivation of FOXO1A, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;

Function

DNA bending activity; double-stranded DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding;

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