Recombinant Human FOXO3

Cat. No. FOXO3-28110TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FOXO3A with an N terminal proprietary tag; Predicted MWt 100.1 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	673 amino acids
Description	This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed.
Molecular Weight	100.100kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAEAPASPAPLSPLEVELDPEFEPQSRPRSCTWPLQRPEL QASPAKPSGETAADS MIPEEEDDEDDEDGGGRAGSAMAIG GGGGSGTLGSGLLLEDSARVLAPGGQDPG SGPATAAGGLS GGTQALLQPQQPLPPPQPGAAGGSGQPRKCSSRRNAWGNL SY ADLITRAIESSPDKRLTLSQIYEWMVRCVPYFKDKGDS NSSAGWKNSIRHNLSLHSR FMRVQNEGTGKSSWWIINPDG GKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAA LQTAPES ADDSPSQLSKWPGSPTSRSSDELDAWTDFRSRTNSNASTV SGRLSPIM ASTELDEVQDDDAPLSPMLYSSSASLSPSVSK PCTVELPRLTDMAGTMNLNDGLTE NLMDDLLDNITLPPSQ PSPTGGLMQRSSSFPYTTKGSGLGSPTSSFNSTVFGPSSL NSLRQSPMQTIQENKPATFSSMSHYGNQTLQDLLTSDSLS HSDVMMTQSDPLMSQ ASTAVSAQNSRRNVMLRNDPMMSFA AQPNQGSLVNQNLLHHQHQTQGALGGSR ALSNSVSNMGLS ESSSLGSAKHQQQSPVSQSMQTLSDSLSGSSLYSTSANLP VM GHEKFPSDLDLDMFNGSLECDMESIIRSELMDADGLDF NFDSLISTQNVVGLNVGN FTGAKQASSQSWVPG
Sequence Similarities	Contains 1 fork-head DNA-binding domain.

GENE INFORMATION

Gene Name	FOXO3 forkhead box O3 [Homo sapiens]
Official Symbol	FOXO3
Synonyms	FOXO3; forkhead box O3; FKHRL1, FOXO3A; forkhead box protein O3; AF6q21; FOXO2;
Gene ID	2309

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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; Chemokine signaling pathway, 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;
Function	DNA bending activity; double-stranded DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding;

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