

Active Recombinant Full Length Human FOXO1 Protein, C-Flag-tagged

Cat. No. FOXO1-1038HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FOXO1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Bio-activity	In vitro kinase assay substrate
Molecular Mass	69.5 kDa
AA Sequence	MAEAPQVVEIDPDFEPLRPRRSTWPLRPFEFSQSNSATSSPAPSGSAAANPDAAA GLPSASAAAVSADF MSNLSLLEESDFPQAPGSVAAAVAAAAAAATGGLCGDFQ GPEAGCLHPAPPQPPPPGPLSQHPPVPPA AAGPLAGQPRKSSSSRRNAWGNLSY ADLITKAIESSAEKRLTLSQIYEWVMKSVPYFKDKGDSNSSAGWK NSIRHNLSLHSK FIRVQNEGTGKSSWWMLNPEGGKSGKSPRRRAASMDNNSKFAKSRRAAKKKAS

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LQSG QEGAGDSPGSQFSKWPASPGSHSNDDFDNWSTFRPRTSSNASTISGRLSPI
MTEQDDLGEQDVHSMVYPP SAAKMASTLPSLSEISNPENMENLLDNLNLLSSPTSL
TVSTQSSPGTMMQQTPCYSFAPPNTSLNSPSPN YQKYTYGQSSMSPLPQMPIQTL
QDNKSSYGGMSQYNCAPGLLKELLTSDSPPHNDIMTPVDPGVAQPNSR VLGQNV
MMGPNSVMSTYGSQVSHNKMMNPSSHTHPGHAQQTSAVNGRPLPHTVSTMPHTS
GMNRLTQVKT PVQVPLPHPMQMSALGGYSSVSSCNGYGRMGLLHQEKLPDLDG
MFIERLDCDMESIIRNDLMDGDTLDF
NFDNVLPNQSFPHSVKTTTHSWVSGLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Insulin signaling pathway, Pathways in cancer, Prostate cancer
Full Length	Full L.

GENE INFORMATION

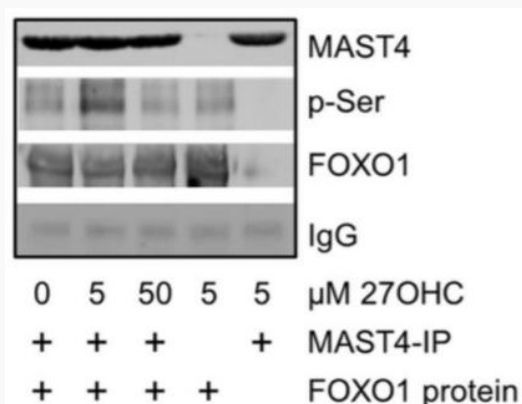
Gene Name FOXO1 forkhead box O1 [Homo sapiens (human)]

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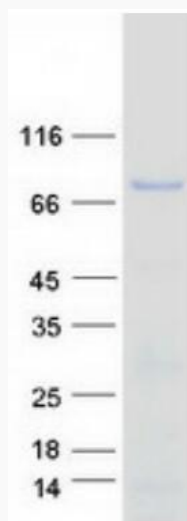
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Official Symbol	FOXO1
Synonyms	FKH1; FKHR; FOXO1A
Gene ID	2308
mRNA Refseq	NM_002015.4
Protein Refseq	NP_002006.2
MIM	136533
UniProt ID	Q12778



MAST4 phosphorylates FOXO1. Reaction mixtures from the kinase assay with recombinant FOXO1 as the substrate and immunoprecipitated kinase MAST4 from nd-SHSY5Y cells treated with different concentrations of 27-hydroxycholesterol (27OHC) for 30 minutes were analyzed in Western blot with indicated antibodies. IgG served as the control in the Western blotting.



Coomassie blue staining of purified FOXO1 protein.

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