

## Product datasheet for **TP300477M**

### FOXO1 (NM\_002015) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human forkhead box O1 (FOXO1), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC200477 representing NM\_002015

**Red**=Cloning site **Green**=Tags(s)

MAEAPQVVEIDPDFEPLRPRRSTWPLRPEFSQSNSATSSPAPSGSAAANPDAAAGLPSASAAAVSADF  
MSNLSLLEESDFPQAPGSVAAAIAAAAAAAAAATGGLCGDFQGPEAGCLHPAPPQPPPPGPLSQHPPVPPA  
AAGPLAGQPRKSSSRNNAWGNLSYADLITKAISSAEKRLTSLQIYEWVMKSVPYFKDKGDSNSSAGWK  
NSIRHNLSLHSKFIRVQNEG TGKSSWWMLNPEGGKSGKSPRRRAASMDNNSKFAKRSRAAKKKASLQSG  
QEGAGDSPGSQFSKWPASPGSHSNDDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEADVHSMVYPP  
SAAKMASTLPSLSEISNPENMENLLDNLNLLSSPTSLTVSTQSSPGTMMQQTPCYSFAPPNTSLNSPSPN  
YQKYTYGQSSMSPLPQMPIQTLQDNKSSYGGMSQYNCAPGLLKELLTSDSPPHNDIMTPVDPGVAQPNSR  
VLGQNVMMGPNMSTYGSQVSHNKMMPSSHTHPGHAQQTSAVNGRPLPHTVSTMPHTSGMNRLLTQVKT  
PVQVPLPHPMQMSALGGYSSVSSCNGYGRMGLLHQEKLPDLDGMFIERLDCDMESIIRNDLMDGDTLDF  
NFDNVLPNQSFPHSVKTTTHSWVSG

**LEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 69.5 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Bioactivity:** In vitro kinase assay substrate (PMID: [29066835](#))

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002006](#)

**Locus ID:** 2308

**UniProt ID:** [Q12778](#)

**RefSeq Size:** 5723

**Cytogenetics:** 13q14.11

**RefSeq ORF:** 1965

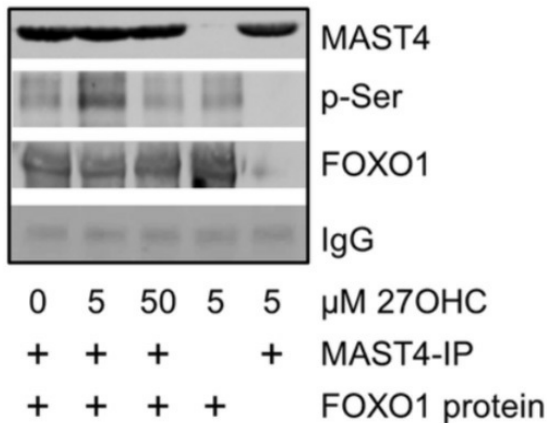
**Synonyms:** FKH1; FKHR; FOXO1A

**Summary:** 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. [provided by RefSeq, Jul 2008]

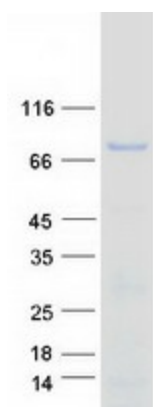
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Insulin signaling pathway, Pathways in cancer, Prostate cancer

**Product images:**



MAST4 phosphorylates FOXO1. Reaction mixtures from the kinase assay with recombinant FOXO1 (OriGene [TP300477]) as the substrate and immunoprecipitated kinase MAST4 from nd-SH-SY5Y 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. Figure cited from Sci Rep, PMID: 29066835



Coomassie blue staining of purified FOXO1 protein (Cat# [TP300477]). The protein was produced from HEK293T cells transfected with FOXO1 cDNA clone (Cat# [RC200477]) using MegaTran 2.0 (Cat# [TT210002]).