

Product datasheet for TP300477L

FOXO1 (NM_002015) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human forkhead box O1 (FOXO1), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC200477 representing NM_002015
Red=Cloning site Green=Tags(s)

MAEAPQVVEIDPDFEPLRPRRSTWPLRPEFSQNSATSSPAPSGSAAANPDAAAGLPSASAAAVSADF
 MSNLSLLEESEDFPQAPGSVAAAIAAAAAAAAAATGGLCGDFQGPEAGCLHPAPPQPPPPGPLSQHPPVPPA
 AAGPLAGQPRKSSSRNNAWGNLSYADLITKAISSAEKRLTSLQIYEWVMKSVPYFKDKGDSNSSAGWK
 NSIRHNLSLHSKFIRVQNEGTKSSWWMLNPEGGKSGKSPRRRAASMDNNSKFAKRSRAAKKKASLQSG
 QEGAGDSPGSQFSKWPASPGSHSNDNDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEQDVHSMVYPP
 SAAKMASTLPSLSEISNPENMENLLDNLNLLSSPTSLTVSTQSSPGTMMQQTPCYSFAPPNTSLNSPSPN
 YQKYTYGQSSMSPLPQMPIQTLQDNKSSYGGMSQYNAPGLLKELLTSDSPPHNDIMTPVDPGVAQPNSR
 VLGQNVMMGPNMSTYGSQVSHNMMNPSSHTHPGHAQQTSAVNGRPLPHTVSTMPHTSGMNRLLTQVKT
 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

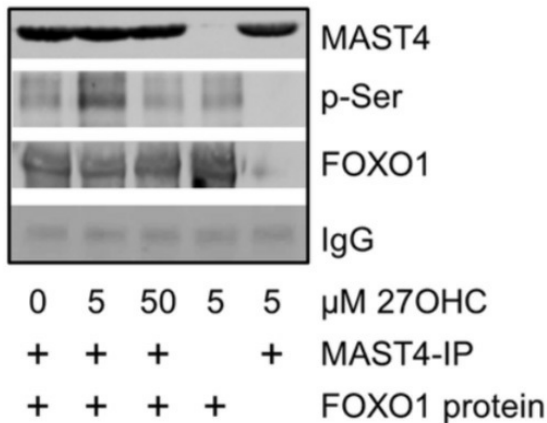
Synonyms: FKH1; FKHR; FOXO1A

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]

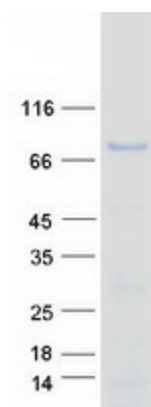
Protein Families: Druggable Genome, Transcription Factors

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]).