

## Product datasheet for TP526631

### Foxo3 (NM\_019740) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse forkhead box O3 (Foxo3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR226631 representing NM_019740 Red=Cloning site Green=Tags(s)  MAEAPASPVPLSPLELVDPFEFEPQSRPRSCTWPLQRPELQASPAKPSGETAADSMIPEEDDDDEDG GRASSAMVIGGGVSSTLGSGLLLED SAMLLAPGGQDLGSGPASAAGALSGGTPTQLQPQQPLPQPQPGAA GGSGQPRKCSSRRNAWGNLSYADLITRAIESSPKRLTSLQIYEWVMVRCVPYFKDKGDSNSSAGWKNSIR HNLSLHSRFRMVQNEGTGKSSWWIINPDGGKSGKAPRRRAVSMDNSNKYTKSRGRAAKKKAALQAAPESA DDSPSQLSKWPGSPTSRSSELD AWTDFRSRTNSNASTVSGRLSPILASTE LDDVQDDDGPLSPMLYSSS ASLSPSVSKPCTVELPRLTDMAGTMNLNDGLAENLMDLLDNIALPPSQSPGGMLMQRGSSFPYTAKSS GLGSPTGSFNSTVFGPSSLNSLRQSPMQTIQENRPATFSSVSHYGNQTLQDLLASDSLHSDVMMTQSDP LMSQASTAVSAQNARRNVMLRNDPMMMSFAAQPTQGS LVNQNLLHHQHQTQ GALGGSRALSNSVSNMGLSD SSSLGSAKHQQQPASQSMQTLSDSLSGSSLYSASANLPVMGHDKFPSDLDLDMFNGLSLECDMESIIRSE LMDADGLDFNFDSLSTQNVVGLNVGNFTGAKQASSQSWVPG  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	71.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online »](#)

RefSeq:	<a href="#">NP_062714</a>
Locus ID:	56484
UniProt ID:	<a href="#">Q9WVH4</a>
RefSeq Size:	2889
Cytogenetics:	10 22.79 cM
RefSeq ORF:	2016
Synonyms:	1110048B16Rik; 2010203A17Rik; C76856; Fkhr2; FKHL1; Foxo3a
Summary:	<p>Transcriptional activator that recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3' and regulates different processes, such as apoptosis and autophagy (PubMed:18054316, PubMed:18054315, PubMed:23805378). Acts as a positive regulator of autophagy in skeletal muscle: in starved cells, enters the nucleus following dephosphorylation and binds the promoters of autophagy genes, such as GABARAP1L, MAP1LC3B and ATG12, thereby activating their expression, resulting in proteolysis of skeletal muscle proteins (PubMed:18054316, PubMed:18054315, PubMed:25402684). Triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress (By similarity). Participates in post-transcriptional regulation of MYC: following phosphorylation by MAPKAPK5, promotes induction of miR-34b and miR-34c expression, 2 post-transcriptional regulators of MYC that bind to the 3' UTR of MYC transcript and prevent its translation (By similarity). In response to metabolic stress, translocates into the mitochondria where it promotes mtDNA transcription (PubMed:23283301). [UniProtKB/Swiss-Prot Function]</p>