

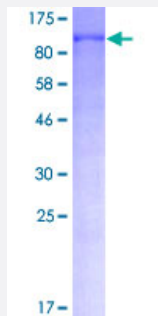
Full-Length

FOXO3 (Human) Recombinant Protein (P01)

Catalog # H00002309-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FOXO3 full-length ORF (AAH20227.1, 1 a.a. - 673 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAEAPASPAPLSPLEVELDPEFEPQSRPRSCWPLQRPELQASPAKPSGETAADSMIPEEEDD
EDDEDGGGRAGSAMAIGGGGGSGTLGSGLLLED SARVLAPGGQDPGSGPATAAGGLSGGTQA
LLQPQQPLPPPQGAAGGSGQPRKCSSRRNAWGNLSYADLITRAIESSPDKRLTLSQIYEWVR
CVPYFKDKGDSNSSAGWKNSIRHNSLHRSFMRVQNEGTGKSSWWIINPDGGKSGKAPRRRAV
SMDNSNKYTKSRGRAAKKKAALQTAPESADDSPSQLSKWPGSPTSRSSDELDAWTD FRSRTN
SNASTVSGRLSPIMASTELDEVQDDAPLSPMLYSSASLSPSVSKPCTVELPRLTDMAGTMNL
NDGLTENLMDDLLDNITLPPSQPSPTGGLMQRSSSFYTTKGSGLSPTSSFNSTVFGPSSLNSL
RQSPMQTIQENKPATFSSMSHYGNQTLQDLLTSDSLSHSDVMMTQSDPLMSQASTAVSAQNSR
RNVMLRNDPMMSF AAQPNQGSLVNQNLHGHQHTQGALGGSRALSNSVSNMGLSESSSLGSA
KHQQQSPVSQSMQTLSDSLSGSSLYSTSANLPVMGHEKFPSDLDLDMFNGSLECDMESIIRSEL
MDADGLDFNFDSLSTQNVVGLNVGNFTGAKQASSQSWVPG

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

97.7

Interspecies Antigen Sequence

Mouse (95); Rat (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FOXO3

Entrez GeneID	2309
GeneBank Accession#	BC020227.1
Protein Accession#	AAH20227.1
Gene Name	FOXO3
Gene Alias	AF6q21, DKFZp781A0677, FKHRL1, FKHRL1P2, FOXO2, FOXO3A, MGC12739, MGC31925
Gene Description	forkhead box O3
Omim ID	602681
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]

Other Designations

OTTHUMP00000016944|forkhead box O3A|forkhead homolog (rhabdomyosarcoma) like 1|forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1

Publication Reference

- [CDK6 protects epithelial ovarian cancer from platinum-induced death via FOXO3 regulation.](#)

Dall'Acqua A, Sonogo M, Pellizzari I, Pellarin I, Canzonieri V, D'Andrea S, Benevol S, Sorio R, Giorda G, Califano D, Bagnoli M, Militello L, Mezzanzanica D, Chiappetta G, Armenia J, Belletti B, Schiappacassi M, Baldassarre G.

EMBO Molecular Medicine 2017 Oct; 9(10):1415.

Application: KA, Recombinant protein

- [FOXO3 is a glucocorticoid receptor target and regulates LKB1 and its own expression based on cellular AMP levels via a positive autoregulatory loop.](#)

Lützner N, Kalbacher H, Krones-Herzig A, Rösl F.

PLoS One 2012 Jul; 7(7):e42166.

Application: Func, Probe

Pathway

- [Chemokine signaling pathway](#)
- [Endometrial cancer](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)

Disease

- [Alzheimer disease](#)
- [Amenorrhea](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Narcolepsy](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Primary Ovarian Insufficiency](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)