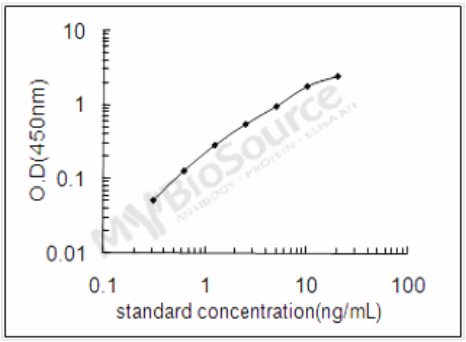
Forkhead Box Protein O3 (FOXO3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Forkhead box protein O3 (FOXO3), ELISA Kit
Full Product Name	Human Forkhead box protein O3 ELISA Kit
Product Gene Name	FOXO3 elisa kit
Product Synonym Names	Forkhead box protein O3; AF6q21 protein; Forkhead in rhabdomyosarcoma-like 1; FOXO3; FKHRL1; FOXO3A
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	0.312-20 ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	48,406 Da
OMIM	602681
3D Structure	ModBase 3D Structure for O43524
Intra-Assay CV	<=4.1%
Inter-Assay CV	<=8.2%
Recovery	96%
Related Product Information for FOXO3 elisa kit	MBS2886355 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Forkhead box protein O3 (FOXO3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing FOXO3. The ELISA analytical biochemical technique of the MBS2886355 kit is based on FOXO3 antibody-FOXO3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FOXO3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FOXO3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of FOXO3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of FOXO3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXO3. It may not necessarily be applicable to this product.

NCBI GI #	4503739
NCBI GeneID	2309
NCBI Accession #	NP_001446.1
UniProt Primary Accession #	O43524
UniProt Secondary Accession #	O15171; Q5T2I7; Q9BZ04; B4DVZ6; E1P5E6
UniProt Related Accession #	O43524
GenBank Nucleotide #	NM_001455.3
NCBI Official Full Name	forkhead box protein O3
NCBI Official Synonym Full Names	forkhead box O3
NCBI Official Symbol	FOXO3
NCBI Official Synonym Symbols	FOXO2; AF6q21; FKHRL1; FOXO3A; FKHRL1P2
UniProt Protein Name	Forkhead box protein O3
UniProt Synonym Protein Names	AF6q21 protein
Protein Family	Forkhead box protein
UniProt Gene Name	FOXO3
UniProt Entry Name	FOXO3_HUMAN
NCBI Protein Information	forkhead box protein O3
NCBI Summary for FOXO3	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, Jul 2008]
UniProt Comments for FOXO3	FOXO3A: a transcription factors of the forkhead family. Contains 1 fork-head domain. May regulate apoptosis through control of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Protein type: Autophagy; Oncoprotein; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 6q21 Cellular Component: cytoplasm; cytosol; membrane; nucleoplasm; nucleus Molecular Function: beta-catenin binding; chromatin DNA binding; DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding; transcription factor activity Biological Process: anatomical structure morphogenesis; antral ovarian follicle growth; cell differentiation; DNA damage response, signal transduction by p53 class mediator; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; glucose homeostasis; initiation of primordial ovarian follicle growth; innate immune response; negative regulation of transcription from RNA polymerase II promoter; nerve growth factor receptor signaling pathway; oocyte maturation; ovulation from ovarian follicle; phosphoinositide-mediated signaling; positive regulation of apoptosis; positive regulation of erythrocyte differentiation; positive regulation of neuron apoptosis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of transcription from RNA polymerase II promoter; regulation of translation; transcription from RNA polymerase II promoter; tumor necrosis factor-mediated signaling pathway
Research Articles on FOXO3	**1.** A significant association between the FOXO3 rs2802288*A and rs2802292*G gene variants in FOXO3 and human longevity.

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