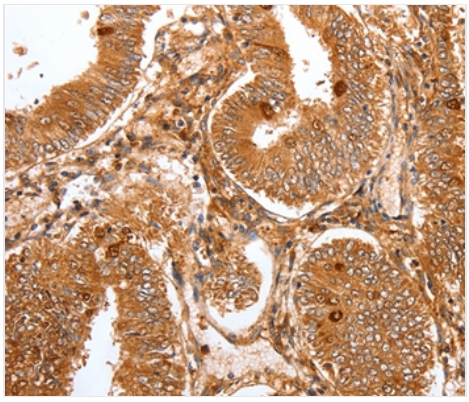
FOXO3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FOXO3, Polyclonal Antibody
Full Product Name	FOXO3 Antibody
Product Gene Name	anti-FOXO3 antibody
Product Synonym Names	FOXO2; AF6q21; FKHRL1; FOXO3A; FKHRL1P2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	0.9 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total FOXO3 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	48,406 Da
OMIM	602681
3D Structure	ModBase 3D Structure for O43524
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human forkhead box O3
Target Name	FOXO3
Product Categories/Family for anti-FOXO3 antibody	Total protein Ab
Applications Tested/Suitable for anti-FOXO3 antibody	Immunohistochemistry (IHC)
Application Notes for anti-FOXO3 antibody	Immunohistochemistry: 1:50-1:150
Related Product Information for anti-FOXO3 antibody	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. Interacts with YWHAB/14-3-3-beta and YWHAZ/14-3-3-zeta, which are required for cytosolic sequestration. Upon oxidative stress, interacts with STK4/MST1, which disrupts interaction with YWHAB/14-3-3-beta and leads to nuclear translocation. Interacts with PIM1. Interacts with DDIT3/CHOP.
Other Notes	Small volumes of anti-FOXO3 antibody 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.
Searchable Terms for FOXO3 purchase	MBS9406270 is an antibody targeting FOXO3. Also known as FOXO3 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-FOXO3 antibody
Immunohistochemical analysis of paraffin-embedded Human cervical cancer tissue using at dilution 1/22.

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; Forkhead in rhabdomyosarcoma-like 1
Protein Family	Forkhead box protein
UniProt Gene Name	FOXO3
UniProt Synonym Gene Names	FKHRL1; FOXO3A
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: Transcription factor; DNA-binding; Oncoprotein; Autophagy Chromosomal Location of Human Ortholog: 6q21 Cellular Component: nucleoplasm; membrane; cytoplasm; nucleus; cytosol Molecular Function: protein binding; DNA binding; sequence-specific DNA binding; chromatin DNA binding; transcription factor activity; protein kinase binding Biological Process: epidermal growth factor receptor signaling pathway; transcription from RNA polymerase II promoter; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; DNA damage response, signal transduction by p53 class mediator; initiation of primordial ovarian follicle growth; positive regulation of transcription, DNA-dependent; antral ovarian follicle growth; positive regulation of erythrocyte differentiation; negative regulation of transcription from RNA polymerase II promoter; ovulation from ovarian follicle; glucose homeostasis; oocyte maturation; regulation of transcription from RNA polymerase II promoter; regulation of translation; positive regulation of neuron apoptosis; innate immune response; positive regulation of transcription from RNA polymerase II promoter
Research Articles on FOXO3	**1.** FoxO3a is a negative regulator of autophagy in multiple cancer cell lines.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/foxo3/9406270