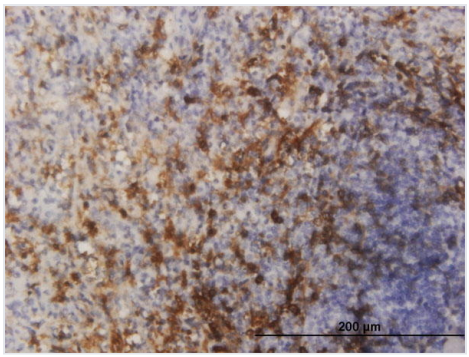
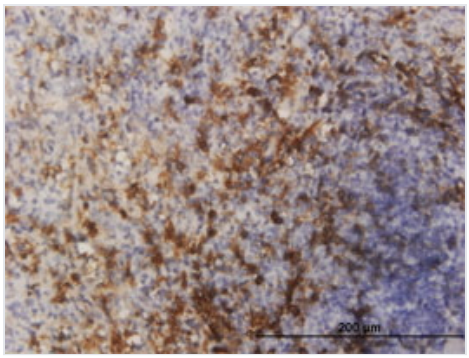
FOXO1A Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FOXO1A, Monoclonal Antibody
Full Product Name	FOXO1A (Forkhead Box O1, FKH1, FKHR, FOXO1A) (PE)
Product Gene Name	anti-FOXO1A antibody
Product Synonym Names	Forkhead Box O1; FKH1; FKHR; FOXO1A
Clonality	Monoclonal
Isotype	IgG2a, lambda
Clone Number	3H5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes FOXO1A.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,662 Da
OMIM	136533
3D Structure	ModBase 3D Structure for Q12778
Immunogen	FOXO1A (NP_002006, 452aa-555aa) full length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	msqyncapg llkelltsds pphndimtpv dpgvaqpnsr vlgqnvmmgp nsvmstygsq ashnkmmnps shthpghaqq tsavngrplp htvstmphts gmnrl
Conjugate	PE
Product Categories/Family for anti-FOXO1A antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-FOXO1A antibody	ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-FOXO1A antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FOXO1A antibody	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]
Other Notes	Small volumes of anti-FOXO1A 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 FOXO1A purchase	MBS6184777 is an antibody targeting FOXO1A. Also known as FOXO1A (Forkhead Box O1, FKH1, FKHR, FOXO1A) (PE). Host: Mouse.



Testing Data of anti-FOXO1A antibody
Immunoperoxidase of monoclonal antibody to FOXO1A on formalin-fixed paraffin-embedded human spleen. [antibody concentration 3 ug/ml]



Immunohistochemistry (IHC) of anti-FOXO1A antibody
Immunoperoxidase of monoclonal antibody to FOXO1A on formalin-fixed paraffin-embedded human spleen. [antibody concentration 3 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXO1A. It may not necessarily be applicable to this product.

NCBI GI #	9257222
NCBI GeneID	2308
NCBI Accession #	NP_002006
UniProt Primary Accession #	Q12778
UniProt Secondary Accession #	O43523; Q5VYC7; Q6NSK6
UniProt Related Accession #	Q12778
GenBank Nucleotide #	NM_002015.3
NCBI Official Full Name	forkhead box protein O1
NCBI Official Synonym Full Names	forkhead box O1
NCBI Official Symbol	FOXO1
NCBI Official Synonym Symbols	FKH1; FKHR; FOXO1A
UniProt Protein Name	Forkhead box protein O1
UniProt Synonym Protein Names	Forkhead box protein O1A; Forkhead in rhabdomyosarcoma
Protein Family	Forkhead box protein
UniProt Gene Name	FOXO1
UniProt Synonym Gene Names	FKHR; FOXO1A
UniProt Entry Name	FOXO1_HUMAN
NCBI Protein Information	forkhead box protein O1; forkhead box protein O1A; forkhead, Drosophila, homolog of, in rhabdomyosarcoma

UniProt Comments for FOXO1A	FOXO1A: a transcription factor of the forkhead family. A central regulator of metabolism in several cell types. May play an important role in myogenic growth and differentiation, and in the regulation of lipolysis in adipocytes by controlling the expression of adipose triglyceride lipase (ATGL), the rate-limiting lipolytic enzyme. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. Contains 1 fork-head domain. Protein type: Nuclear receptor co-regulator; DNA-binding; Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 13q14.1 Cellular Component: nucleoplasm; mitochondrion; cytoplasm; nucleus; cytosol Molecular Function: protein binding; protein phosphatase 2A binding; sequence-specific DNA binding; ubiquitin protein ligase binding; chromatin binding Biological Process: transcription from RNA polymerase II promoter; fat cell differentiation; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; apoptosis; positive regulation of transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; thermoregulation; positive regulation of gluconeogenesis; positive regulation of autophagy; epidermal growth factor receptor signaling pathway; blood vessel development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; negative regulation of fat cell differentiation; negative regulation of stress-activated MAPK cascade; cellular response to starvation; endocrine pancreas development; protein amino acid acetylation; cellular response to insulin stimulus; insulin receptor signaling pathway; positive regulation of protein catabolic process; autophagy; cell glucose homeostasis; innate immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; response to DNA damage stimulus; negative regulation of apoptosis Disease: Rhabdomyosarcoma 2
Research Articles on FOXO1A	**1.** In conclusion, atrogin-1, MuRF1, FOXO1/3A, and eIF3-f mRNA, and protein levels, are differentially regulated by exercise contraction mode but not WPH supplementation combined with hypertrophy-inducing training.
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