FOXC1/2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FOXC1/2, Polyclonal Antibody
Full Product Name	FOXC1/2 Antibody
Product Gene Name	anti-FOXC1/2 antibody
Product Synonym Gene Name	FOXC1; FOXC2
Product Synonym Names	FOXC1; FKHL7; FREAC3; Forkhead box protein C1; Forkhead-related protein FKHL7; Forkhead-related transcription factor 3; FREAC-3; FOXC2; FKHL14; MFH1; Forkhead box protein C2; Forkhead-related protein FKHL14; Mesenchyme fork head protein 1; MFH-1 protein; Transcription factor FKH-14
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of FOXC1/2 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	56,789 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (1610681..1614132). Location: 6p25
OMIM	601090
3D Structure	ModBase 3D Structure for Q12948
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FOXC1/2.
Product Categories/Family for anti-FOXC1/2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FOXC1/2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-FOXC1/2 antibody	WB: 1:500-1:1000 IHC: 1:50-1:100 IF: 1:100-1:300
Related Product Information for anti-FOXC1/2 antibody	MBS8596387 is an antibody targeting FOXC1/2. Also known as FOXC1/2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-FOXC1/2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXC1/2. It may not necessarily be applicable to this product.

NCBI GI #	119395716
NCBI GeneID	2296
NCBI Accession #	NP_001444.2
UniProt Primary Accession #	Q12948
UniProt Secondary Accession #	Q86UP7; Q9BYM1; Q9NUE5; Q9UDD0; Q9UP06
UniProt Related Accession #	Q12948
GenBank Nucleotide #	NM_001453.2
NCBI Official Full Name	forkhead box protein C1
NCBI Official Synonym Full Names	forkhead box C1
NCBI Official Symbol	FOXC1
NCBI Official Synonym Symbols	ARA; IGDA; IHG1; FKHL7; IRID1; RIEG3; FREAC3; FREAC-3
UniProt Protein Name	Forkhead box protein C1
UniProt Synonym Protein Names	Forkhead-related protein FKHL7; Forkhead-related transcription factor 3
UniProt Gene Name	FOXC1
UniProt Synonym Gene Names	FKHL7; FREAC3; FREAC-3
UniProt Entry Name	FOXC1_HUMAN
NCBI Protein Information	forkhead box protein C1; myeloid factor-delta; forkhead-related activator 3; forkhead-related protein FKHL7; forkhead, drosophila, homolog-like 7; forkhead-related transcription factor 3; forkhead/winged helix-like transcription factor 7
NCBI Summary for FOXC1/2	This gene belongs to the forkhead family of transcription factors which is characterized by a distinct DNA-binding forkhead domain. The specific function of this gene has not yet been determined; however, it has been shown to play a role in the regulation of embryonic and ocular development. Mutations in this gene cause various glaucoma phenotypes including primary congenital glaucoma, autosomal dominant iridogoniodysgenesis anomaly, and Axenfeld-Rieger anomaly. [provided by RefSeq, Jul 2008]
UniProt Comments for FOXC1/2	FOXC1: Binding of FREAC-3 and FREAC-4 to their cognate sites results in bending of the DNA at an angle of 80-90 degrees. Monomer. Expressed in all tissues and cell lines examined. Protein type: Transcription factor; Cell development/differentiation; DNA-binding; Cell cycle regulation Chromosomal Location of Human Ortholog: 6p25 Cellular Component: nucleoplasm; cytoplasm; nuclear heterochromatin; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; DNA binding; sequence-specific DNA binding; transcription factor binding; DNA bending activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; collagen fibril organization; neural crest cell development; glycosaminoglycan metabolic process; paraxial mesoderm formation; positive regulation of transcription, DNA-dependent; heart development; cardiac muscle cell proliferation; ovarian follicle development; regulation of transcription, DNA-dependent; ureteric bud development; germ cell migration; ventricular cardiac muscle morphogenesis; negative regulation of mitotic cell cycle; lacrimal gland development; regulation of blood vessel size; skeletal development; mesenchymal cell development; ossification; somitogenesis; Notch signaling pathway; cell migration; camera-type eye development; in utero embryonic development; regulation of organ growth; odontogenesis of dentine-containing teeth; cell proliferation; eye development; artery morphogenesis; embryonic heart tube development; blood vessel remodeling; positive regulation of transcription from RNA polymerase II promoter; brain development; vascular endothelial growth factor receptor signaling pathway; lymph vessel development Disease: Axenfeld-rieger Syndrome, Type 3; Iridogoniodysgenesis, Type 1

Research Articles on FOXC1/2	**1.** The data suggest existence of a complex regulatory pathway in the trabecular meshwork part of which includes interactions between FOXC1, miR-204, MEIS2, and ITGbeta1.
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