FOXE3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FOXE3, Polyclonal Antibody
Full Product Name	FOXE3, ID (FOXE3, FKHL12, FREAC8, Forkhead box protein E3, Forkhead-related protein FKHL12, Forkhead-related transcription factor 8) (MaxLight 750)
Product Gene Name	anti-FOXE3 antibody
Product Synonym Names	FOXE3; FKHL12; FREAC8; Forkhead box protein E3; Forkhead-related protein FKHL12; Forkhead-related transcription factor 8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	33,234 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (47881744..47883724). Location: 1p32
OMIM	107250
3D Structure	ModBase 3D Structure for Q13461
Immunogen	FOXE3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-122 amino acids from the Central region of human FOXE3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-FOXE3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-FOXE3 antibody	Western Blot (WB), FLISA
Application Notes for anti-FOXE3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FOXE3 antibody	This intronless gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. The protein encoded functions as a lens-specific transcription factor and plays an important role in vertebrate lens formation. Mutations in this gene are associated with anterior segment mesenchymal dysgenesis and congenital primary aphakia.
Product References and Citations for anti-FOXE3 antibody	Reis, L.M., et al. Am. J. Med. Genet. A 152A (3), 582-590 (2010): Bremond-Gignac, D., et al. Mol. Vis. 16, 1705-1711 (2010): Ali, M., et al. Mol. Vis. 16, 1162-1168 (2010): Anjum, I., et al. Mol. Vis. 16, 549-555 (2010): Iseri, S.U., et al. Hum. Mutat. 30(10):1378-1386(2009).

Other Notes	Small volumes of anti-FOXE3 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 FOXE3 purchase	MBS6299771 is an antibody targeting FOXE3. Also known as FOXE3, ID (FOXE3, FKHL12, FREAC8, Forkhead box protein E3, Forkhead-related protein FKHL12, Forkhead-related transcription factor 8) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXE3. It may not necessarily be applicable to this product.

NCBI GI #	11386197
NCBI GeneID	2301
NCBI Accession #	NP_036318.1
UniProt Primary Accession #	Q13461
UniProt Secondary Accession #	Q5SVY9; Q9NQV9
UniProt Related Accession #	Q13461
GenBank Nucleotide #	NM_012186.2
NCBI Official Full Name	forkhead box protein E3
NCBI Official Synonym Full Names	forkhead box E3
NCBI Official Symbol	FOXE3
NCBI Official Synonym Symbols	FKHL12; FREAC8
UniProt Protein Name	Forkhead box protein E3
UniProt Synonym Protein Names	Forkhead-related protein FKHL12; Forkhead-related transcription factor 8
Protein Family	Forkhead box protein
UniProt Gene Name	FOXE3
UniProt Synonym Gene Names	FKHL12; FREAC8; FREAC-8
UniProt Entry Name	FOXE3_HUMAN
NCBI Protein Information	forkhead box protein E3; FREAC-8; forkhead-related protein FKHL12; forkhead, drosophila, homolog-like 12; forkhead-related transcription factor 8

UniProt Comments for FOXE3	FOXE3: Defects in FOXE3 are a cause of anterior segment mesenchymal dysgenesis (ASMD); also known as anterior segment ocular dysgenesis (ASOD). ASMD consists of a range of developmental defects in structures at the front of the eye, resulting from abnormal migration or differentiation of the neural crest derived mesenchymal cells that give rise to the cornea, iris, and other components of the anterior chamber during eye development. Mature anterior segment anomalies are associated with an increased risk of glaucoma and corneal opacity. Conditions falling within the phenotypic spectrum include aniridia, posterior embryotoxon, Axenfeld anomaly, Reiger anomaly/syndrome, Peters anomaly, and iridogoniodysgenesis. Defects in FOXE3 are a cause of congenital primary aphakia (CPA). Aphakia is a rare congenital eye disorder in which the lens is missing. It has been histologically subdivided into primary and secondary forms, in accordance with the severity of defects of the ocular tissues, whose development requires the initial presence of a lens. CPA results from an early developmental arrest, around the 4th-5th week of gestation in humans, that prevents the formation of any lens structure and leads to severe secondary ocular defects, including a complete aplasia of the anterior segment of the eye. In contrast, in secondary aphakic eyes, lens induction has occurred, and the lens vesicle has developed to some degree but finally has progressively resorbed perinatally, leading, therefore, to less-severe ocular defects. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1p32 Cellular Component: transcription factor complex; nucleus Molecular Function: sequence-specific DNA binding; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter; camera-type eye development; cell development; positive regulation of epithelial cell proliferation Disease: Anterior Segment Mesenchymal Dysgenesis; Aphakia, Congenital Primary
Research Articles on FOXE3	**1.** shRNA-mediated gene silencing of FOXE3 could significantly inhibit cell growth and induce the G1-phase arrest in human lens epithelial cell line-3 cells.
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