FOXF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FOXF1, Polyclonal Antibody
Full Product Name	FOXF1, NT (FOXF1, FKHL5, FREAC1, Forkhead box protein F1, Forkhead-related activator 1, Forkhead-related protein FKHL5, Forkhead-related transcription factor 1) (MaxLight 405)
Product Gene Name	anti-FOXF1 antibody
Product Synonym Names	FOXF1; FKHL5; FREAC1; Forkhead box protein F1; Forkhead-related activator 1; Forkhead-related protein FKHL5; Forkhead-related transcription factor 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	40,122 Da
OMIM	U13219 mRNA
3D Structure	ModBase 3D Structure for Q12946
Immunogen	FOXF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-50 amino acids from the N-terminal region of human FOXF1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-FOXF1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-FOXF1 antibody	Western Blot (WB), FLISA
Application Notes for anti-FOXF1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FOXF1 antibody	This gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the regulation of pulmonary genes as well as embryonic development.
Product References and Citations for anti-FOXF1 antibody	Saito, R.A., et al. Cancer Res. 70(7):2644-2654(2010). Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010). Nilsson, J., et al. Cancer Res. 70(5):2020-2029(2010). Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010). Shaw-Smith, C. Eur J Med Genet 53(1):6-13(2010).

Other Notes	Small volumes of anti-FOXF1 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 FOXF1 purchase	MBS6299778 is an antibody targeting FOXF1. Also known as FOXF1, NT (FOXF1, FKHL5, FREAC1, Forkhead box protein F1, Forkhead-related activator 1, Forkhead-related protein FKHL5, Forkhead-related transcription factor 1) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXF1. It may not necessarily be applicable to this product.

NCBI GI #	110735445
NCBI GeneID	2294
NCBI Accession #	NP_001442.2
UniProt Primary Accession #	Q12946
UniProt Secondary Accession #	Q5FWE5; B2RAF4
UniProt Related Accession #	Q12946
GenBank Nucleotide #	NM_001451.2
NCBI Official Full Name	forkhead box protein F1
NCBI Official Synonym Full Names	forkhead box F1
NCBI Official Symbol	FOXF1
NCBI Official Synonym Symbols	FKHL5; ACDMPV; FREAC1
UniProt Protein Name	Forkhead box protein F1
UniProt Synonym Protein Names	Forkhead-related activator 1; FREAC-1; Forkhead-related protein FKHL5; Forkhead-related transcription factor 1
Protein Family	Forkhead box protein
UniProt Gene Name	FOXF1
UniProt Synonym Gene Names	FKHL5; FREAC1; FREAC-1
NCBI Protein Information	forkhead box protein F1

UniProt Comments for FOXF1	FOXF1: Probable transcription activator for a number of lung- specific genes. Defects in FOXF1 are the cause of alveolar capillary dysplasia with misalignment of pulmonary veins (ACDMPV). ACDMPV is a rare malformation due to abnormal development of the capillary vascular system in the lungs. Histologically, it is characterized by failure of formation and ingrowth of alveolar capillaries, medial muscular thickening of small pulmonary arterioles with muscularization of the intraacinar arterioles, thickened alveolar walls, and anomalously situated pulmonary veins running alongside pulmonary arterioles and sharing the same adventitial sheath. Less common features include a reduced number of alveoli and a patchy distribution of the histopathologic changes. Affected infants present with respiratory distress and the disease is fatal within the newborn period. Additional features include multiple congenital anomalies affecting the cardiovascular, gastrointestinal, genitourinary, and musculoskeletal systems, as well as disruption of the normal right-left asymmetry of intrathoracic or intraabdominal organs. ACDMPV is a rare cause of persistent pulmonary hypertension of the newborn, an abnormal physiologic state caused by failure of transition of the pulmonary circulation from the high pulmonary vascular resistance of the fetus to the low pulmonary vascular resistance of the newborn. Protein type: DNA-binding; Motility/polarity/chemotaxis; Transcription factor Chromosomal Location of Human Ortholog: 16q24.1 Cellular Component: nucleus; transcription factor complex Molecular Function: DNA binding; RNA polymerase II transcription factor activity, enhancer binding; sequence-specific DNA binding Biological Process: blood vessel development; embryonic digestive tract morphogenesis; embryonic ectodermal gut morphogenesis; gut development; heart development; in utero embryonic development; lung development; midgut development; morphogenesis of a branching structure; pancreas development; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; respiratory tube development Disease: Alveolar Capillary Dysplasia With Misalignment Of Pulmonary Veins
Research Articles on FOXF1	**1.** Results show that FoxF1 increases invasiveness of breast cancer cells by upregulating LOX.
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.
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