RFX3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RFX3, Polyclonal Antibody
Full Product Name	RFX3 Antibody
Product Gene Name	anti-RFX3 antibody
Product Synonym Names	Transcription factor RFX3; Regulatory factor X 3; RFX3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: RFX3 (MBS7003398) HRP Conjugated Antibody: RFX3 (MBS7006235)
Matching Pairs	Unconjugated Antibody: RFX3 (MBS7003398) Biotin Conjugated Antibody: RFX3 (MBS7006386)
Matching Pairs	Unconjugated Antibody: RFX3 (MBS7003398) FITC Conjugated Antibody: RFX3 (MBS7006723)
Molecular Weight	45,715 Da
OMIM	601337
3D Structure	ModBase 3D Structure for P48380
Immunogen	Recombinant human Transcription factor RFX3 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-10662 / sc-10663
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RFX3 antibody	ELISA (EIA)
Related Product Information for anti-RFX3 antibody	Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left-right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells. Also required for ciliated ependymal cell differentiation. Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells. Regulates transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes. Acts as a transcription factor. Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells.

Other Notes	Small volumes of anti-RFX3 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 RFX3 purchase	MBS7003398 is an antibody targeting RFX3. Also known as RFX3 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RFX3. It may not necessarily be applicable to this product.

NCBI GI #	531034744
NCBI GeneID	5991
NCBI Accession #	NP_001269045.1
UniProt Primary Accession #	P48380
UniProt Secondary Accession #	Q5JTL7; Q5JTL8; Q6NW13; Q8WTU4; Q95HL5; Q95HL6; A8K0H5; D3DRH8; D3DRH9
UniProt Related Accession #	P48380
GenBank Nucleotide #	NM_001282116.1
NCBI Official Full Name	transcription factor RFX3 isoform b
NCBI Official Synonym Full Names	regulatory factor X3
NCBI Official Symbol	RFX3
UniProt Protein Name	Transcription factor RFX3
UniProt Synonym Protein Names	Regulatory factor X 3
Protein Family	Transcription factor
UniProt Gene Name	RFX3
UniProt Entry Name	RFX3_HUMAN
NCBI Protein Information	transcription factor RFX3
NCBI Summary for RFX3	This gene is a member of the regulatory factor X gene family, which encodes transcription factors that contain a highly-conserved winged helix DNA binding domain. The protein encoded by this gene is structurally related to regulatory factors X1, X2, X4, and X5. It is a transcriptional activator that can bind DNA as a monomer or as a heterodimer with other RFX family members. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2013]

UniProt Comments for RFX3	RFX3: Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left- right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells. Also required for ciliated ependymal cell differentiation. Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells. Regulates transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes. Acts as a transcription factor. Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells. Belongs to the RFX family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 9p24.2 Cellular Component: nuclear chromatin; nucleus; transcription factor complex Molecular Function: DNA binding; protein binding; RNA polymerase II transcription factor activity, enhancer binding; transcription factor activity Biological Process: cell maturation; cilium biogenesis; endocrine pancreas development; negative regulation of transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of insulin secretion; regulation of transcription, DNA-dependent; transcription, DNA-dependent
Research Articles on RFX3	**1.** FOXJ1 is an important regulator of cilia gene expression during ciliated cell differentiation, with RFX3 as a transcriptional co-activator to FOXJ1.
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