PTF1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ptf1a, Polyclonal Antibody
Full Product Name	Ptf1a, CT (Pancreas transcription factor 1 subunit alpha, Pancreas-specific transcription factor 1a, bHLH transcription factor p48, p48 DNA-binding subunit of transcription factor PTF1, PTF1-p48, PTF1P48) (MaxLight 490)
Product Gene Name	anti-Ptf1a antibody
Product Synonym Names	Pancreas transcription factor 1 subunit alpha; Pancreas-specific transcription factor 1a; bHLH transcription factor p48; p48 DNA-binding subunit of transcription factor PTF1; PTF1-p48; PTF1P48
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 MaxLight490.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,970 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (23481460..23483181). Location: 10p12.2
OMIM	607194
3D Structure	ModBase 3D Structure for Q7RTS3
Immunogen	Ptf1a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human PTF1A.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-Ptf1a antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-Ptf1a antibody	Western Blot (WB), FLISA
Application Notes for anti-Ptf1a antibody	WB: 1:50-100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Ptf1a antibody	Ptf1a is a component of the pancreas transcription factor 1 complex (PTF1) and is known to have a role in mammalian pancreatic development. The protein plays a role in determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. This protein is thought to be involved in the maintenance of exocrine pancreas-specific gene expression including elastase 1 and amylase. Mutations in the Ptf1a gene cause cerebellar agenesis and loss of expression is seen in ductal type pancreas cancers.

Product References and Citations for anti-Ptf1a antibody	Yamada, M., J. Neurosci. 27 (41), 10924-10934 (2007). Beres, T.M., Mol. Cell. Biol. 26 (1), 117-130 (2006). Sellick, G.S., Nat. Genet. 36 (12), 1301-1305 (2004).
Other Notes	Small volumes of anti-Ptf1a 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 Ptf1a purchase	MBS6338673 is an antibody targeting Ptf1a. Also known as Ptf1a, CT (Pancreas transcription factor 1 subunit alpha, Pancreas-specific transcription factor 1a, bHLH transcription factor p48, p48 DNA-binding subunit of transcription factor PTF1, PTF1-p48, PTF1P48) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ptf1a. It may not necessarily be applicable to this product.

NCBI GI #	30039710
NCBI GeneID	256297
NCBI Accession #	NP_835455.1
UniProt Primary Accession #	Q7RTS3
UniProt Secondary Accession #	Q9HC25
UniProt Related Accession #	Q7RTS3
GenBank Nucleotide #	NM_178161.2
NCBI Official Full Name	pancreas transcription factor 1 subunit alpha
NCBI Official Synonym Full Names	pancreas specific transcription factor, 1a
NCBI Official Symbol	PTF1A
NCBI Official Synonym Symbols	bHLHa29; PTF1-p48
UniProt Protein Name	Pancreas transcription factor 1 subunit alpha
UniProt Synonym Protein Names	Class A basic helix-loop-helix protein 29; bHLHa29; Pancreas-specific transcription factor 1a; bHLH transcription factor p48; p48 DNA-binding subunit of transcription factor PTF1
Protein Family	Pancreas transcription factor
UniProt Gene Name	PTF1A
UniProt Synonym Gene Names	BHLHA29; PTF1P48; bHLHa29; PTF1-p48
UniProt Entry Name	PTF1A_HUMAN
NCBI Protein Information	pancreas transcription factor 1 subunit alpha; class II bHLH protein PTF1A; bHLH transcription factor p48; class A basic helix-loop-helix protein 29; pancreas-specific transcription factor 1a; exocrine pancreas-specific transcription factor p48; p48 DNA-b
NCBI Summary for Ptf1a	This gene encodes a protein that is a component of the pancreas transcription factor 1 complex (PTF1) and is known to have a role in mammalian pancreatic development. The protein plays a role in determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. The protein is thought to be involved in the maintenance of exocrine pancreas-specific gene expression including elastase 1 and amylase. Mutations in this gene cause cerebellar agenesis and loss of expression is seen in ductal type pancreas cancers. [provided by RefSeq, Jul 2008]

UniProt Comments for Ptf1a	PTF1A: Transcriptional activator. Binds to the E-box consensus sequence 5'-CANNTG-3'. Plays an important role in determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. May be involved in the maintenance of exocrine pancreas-specific gene expression including ELA1 and amylase. Required for the formation of pancreatic acinar and ductal cells. Plays an important role in cerebellar development. Defects in PTF1A are the cause of diabetes mellitus and cerebellar hypoplasia/agenesis (DMCH). Chromosomal Location of Human Ortholog: 10p12.2 Cellular Component: transcription factor complex; cytoplasm; nucleus Molecular Function: protein dimerization activity; DNA binding; sequence-specific DNA binding; chromatin binding Biological Process: retinoic acid receptor signaling pathway; tissue development; embryonic development; regulation of transcription, DNA-dependent; transcription, DNA-dependent; pancreas development; exocrine pancreas development; neuron fate commitment; cerebellum development; positive regulation of transcription from RNA polymerase II promoter; endocrine pancreas development Disease: Pancreatic And Cerebellar Agenesis; Pancreatic Agenesis 2
Research Articles on Ptf1a	**1.** ICAT is a novel Ptf1a interactor that regulates pancreatic acinar differentiation and displays altered expression.
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