



PTF1A mouse mAb

Catalog No	YP-mAb-12050
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PTF1A BHLHA29 PTF1P48
Immunogen	Synthesized peptide derived from human PTF1A AA range: 172-222
Specificity	This antibody detects endogenous levels of PTF1A at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	bHLH transcription factor p48;bHLHa29;PTF1 p48;PTF1A;PTF1P48;PTF1A BHLHA29 PTF1P48
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus . Cytoplasm . In chronic pancreatitis associated with pancreas cancer preferentially accumulates in the cytoplasm of acinar/ductular complexes. In the cytoplasm loses its ability to form the PTF1 complex (By similarity). .
Tissue Specificity	Pancreas-specific (at protein level). Loss of expression is seen in ductal type pancreas cancers.
Function	disease:Defects in PTF1A are the cause of diabetes mellitus and cerebellar hypoplasia/agenesis [MIM:609069].,function: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 (By similarity). Plays an important role in cerebellar development., miscellaneous:An excellent marker of acinar cell differentiation in the pancreas.,



similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subcellular location:In chronic pancreatitis associated with pancreas cancer preferentially accumulates in the cytoplasm of acinar/ductular complexes. In the

Background

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],

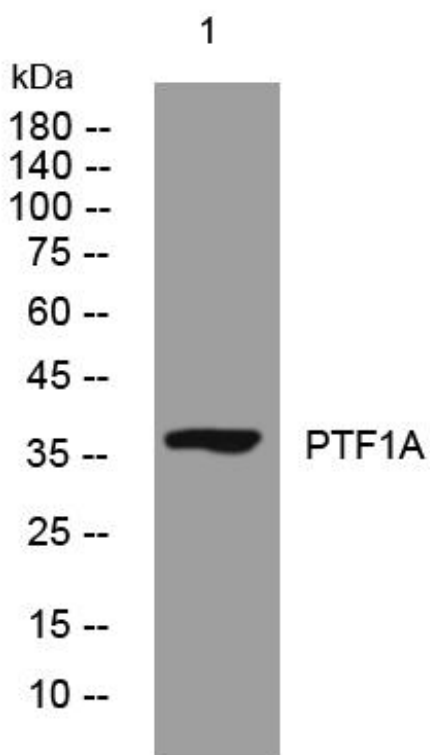
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PTF1A mouse mAb