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PTF1A Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant PTF1A.
Catalog # AT3482a

Specification

PTF1A Antibody (monoclonal) (M09) - Product Information

Application	**WB, E**
Primary Accession	Q7RTS3
Other Accession	NM_178161
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Lambda**
Calculated MW	**34970**

PTF1A Antibody (monoclonal) (M09) - Additional Information

Gene ID 256297

Other Names
Pancreas transcription factor 1 subunit alpha, 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, PTF1-p48, PTF1A, BHLHA29, PTF1P48

Target/Specificity
PTF1A (NP_835455, 250 a.a. ~ 328 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
PTF1A Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

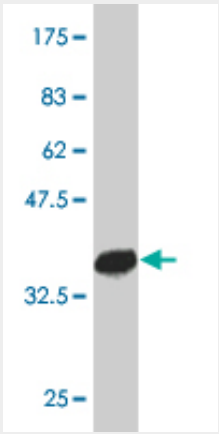
PTF1A Antibody (monoclonal) (M09) - Protocols

Provided below are standard protocols that you may find useful for product applications.

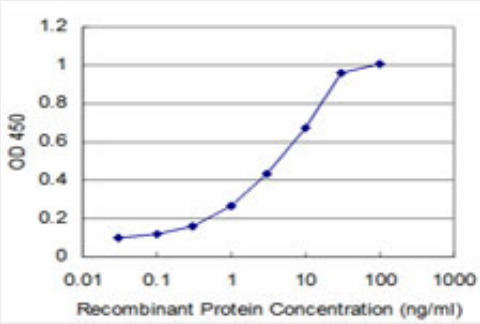
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTF1A Antibody (monoclonal) (M09) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.8 KDa) .



Detection limit for recombinant GST tagged PTF1A is approximately 0.3ng/ml as a capture antibody.

PTF1A Antibody (monoclonal) (M09) - 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.

PTF1A Antibody (monoclonal) (M09) - References

Multiple transcriptional mechanisms control Ptf1a levels during neural development including autoregulation by the PTF1-J complex. Meredith DM, et al. J Neurosci, 2009 Sep 9. PMID 19741120.A Turkish newborn infant with cerebellar agenesis/neonatal diabetes mellitus and PTF1A mutation. Tutak E, et al. Genet Couns, 2009. PMID 19650412.p/CAF modulates the activity of the transcription factor p48/Ptf1a involved in pancreatic acinar differentiation. Rodolosse A, et al. Biochem J, 2009

Mar 1. PMID 18834332.Origin of climbing fiber neurons and their developmental dependence on Ptf1a. Yamada M, et al. J Neurosci, 2007 Oct 10. PMID 17928434.PTF1 is an organ-specific and Notch-independent basic helix-loop-helix complex containing the mammalian Suppressor of Hairless (RBP-J) or its paralogue, RBP-L. Beres TM, et al. Mol Cell Biol, 2006 Jan. PMID 16354684.