

Human Pancreas transcription factor 1 subunit alpha (PTF1A) ELISA Kit



Catalog No: #EK8036

Orders: order@signalwayantibody.com

Package Size: #EK8036-1 48T #EK8036-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Pancreas transcription factor 1 subunit alpha (PTF1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	PTF1-p48; bHLHa29; bHLH transcription factor p48 class II bHLH protein PTF1A exocrine pancreas-specific transcription factor p48 p48 DNA-binding subunit of transcription factor PTF1 pancreas transcr
Accession No.	Q7RTS3
Uniprot	Q7RTS3
GeneID	256297;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.058 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PTF1A in samples. An antibody specific for PTF1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTF1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTF1A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PTF1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Pancreas transcription factor 1 subunit alpha 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.Pancreas-specific (at protein level). Loss of expression is seen in ductal type pancreas cancers.

Note: This product is for in vitro research use only