

Neuro D Polyclonal Antibody

Catalog No: YT3061

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA;IHC

Target: Neuro D

Fields: >>Maturity onset diabetes of the young

Gene Name: NEUROD1

Protein Name: Neurogenic differentiation factor 1

Q13562

Q60867

Human Gene Id: 4760

Human Swiss Prot

Tullian Swiss Fit

No:

Mouse Gene Id: 18012

Mouse Swiss Prot

No:

Rat Gene Id: 29458

Rat Swiss Prot No: Q64289

Immunogen: The antiserum was produced against synthesized peptide derived from human

NEUROD1. AA range:240-289

Specificity: Neuro D Polyclonal Antibody detects endogenous levels of Neuro D protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 36kD

Cell Pathway: Maturity onset diabetes of the young;

Background: This gene encodes a member of the NeuroD family of basic helix-loop-helix

(bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul

20081.

Function: disease:Defects in NEUROD1 are the cause of maturity onset diabetes of the

young type 6 (MODY6) [MIM:606394]. MODY [MIM:606391] is characterized by an autosomal dominant mode of inheritance, onset during young adulthood and a primary defect in insulin secretion.,function:Differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar cortex. Transcriptional activator. Binds to the insulin gene E-box.,PTM:Phosphorylated. In islet cells, phosphorylated on Ser-274 upon glucose stimulation; which may be required for nuclear localization. In activated neurons, phosphorylated on Ser-335; which promotes dendritic growth.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH

protein. Heterodimer with TCF3/E47. Interacts with RREB1.,

Subcellular Cytoplasm . Nucl

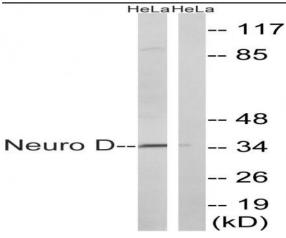
Location:

Cytoplasm . Nucleus . In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the

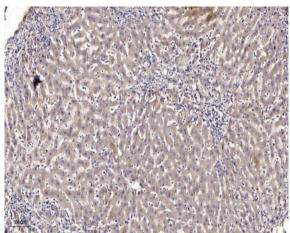
nucleus...

Expression: Eye,Retina,Rhabdomyosarcoma,

Products Images



Western blot analysis of lysates from HeLa cells, using Neuro D Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).