Immunoway
Best Tools for immunology Research

Neuro D (phospho Ser274) Polyclonal Antibody

Catalog No :	YP0473
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	Neuro D
Fields :	>>Maturity onset diabetes of the young
Gene Name :	NEUROD1
Protein Name :	Neurogenic differentiation factor 1
Human Gene Id :	4760
Human Swiss Prot No :	Q13562
Mouse Gene Id :	18012
Mouse Swiss Prot No :	Q60867
Rat Gene Id :	29458
Rat Swiss Prot No :	Q64289
Immunogen :	The antiserum was produced against synthesized peptide derived from human Neuro D around the phosphorylation site of Ser274. AA range:240-289
Specificity :	Phospho-Neuro D (S274) Polyclonal Antibody detects endogenous levels of Neuro D protein only when phosphorylated at S274.
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

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;

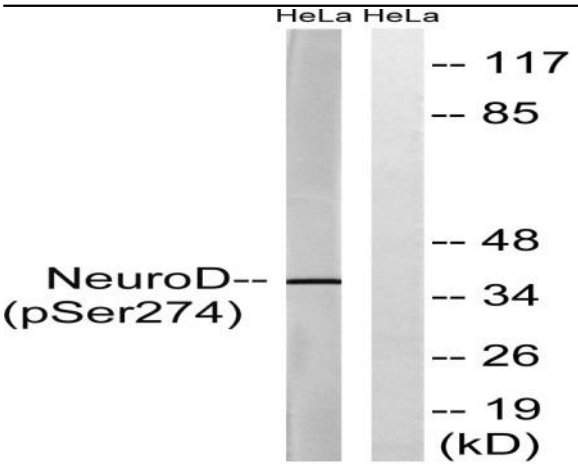
Background : This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul 2008],

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.,

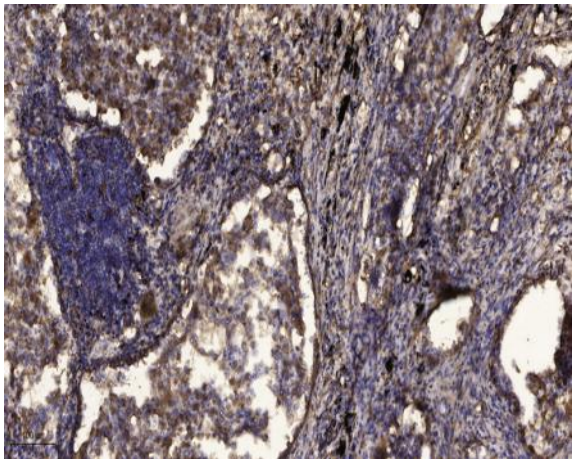
Subcellular Location : Cytoplasm . Nucleus . In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the nucleus. .

Expression : Eye,Retina,Rhabdomyosarcoma,

Products Images



Western blot analysis of lysates from HeLa cells treated with UV 15', using Neuro D (Phospho-Ser274) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 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).