

**Neuro D (phospho Ser274) Polyclonal Antibody**

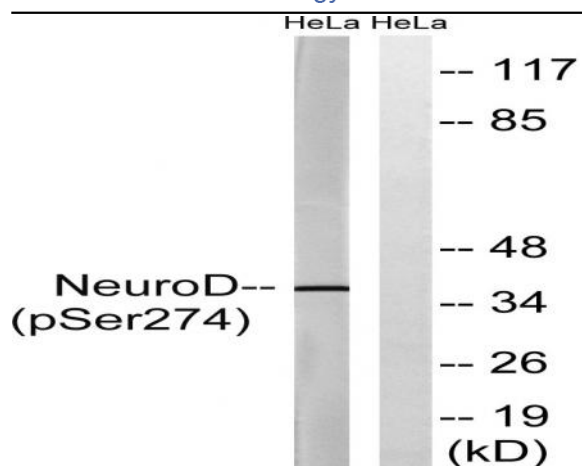
<b>Catalog No :</b>	YP0473
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	Neuro D
<b>Fields :</b>	>>Maturity onset diabetes of the young
<b>Gene Name :</b>	NEUROD1
<b>Protein Name :</b>	Neurogenic differentiation factor 1
<b>Human Gene Id :</b>	4760
<b>Human Swiss Prot No :</b>	Q13562
<b>Mouse Gene Id :</b>	18012
<b>Mouse Swiss Prot No :</b>	Q60867
<b>Rat Gene Id :</b>	29458
<b>Rat Swiss Prot No :</b>	Q64289
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Neuro D around the phosphorylation site of Ser274. AA range:240-289
<b>Specificity :</b>	Phospho-Neuro D (S274) Polyclonal Antibody detects endogenous levels of Neuro D protein only when phosphorylated at S274.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300

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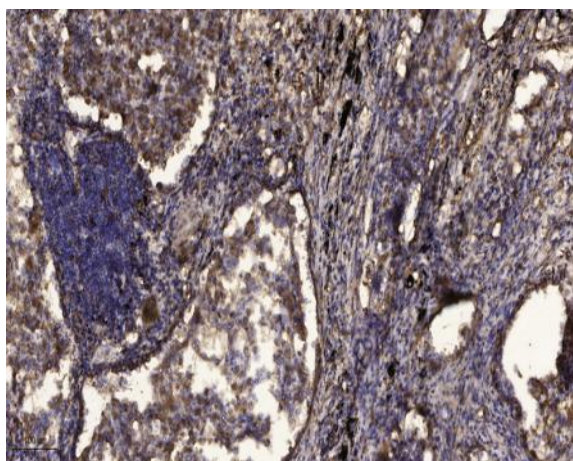
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	36kD
<b>Cell Pathway :</b>	Maturity onset diabetes of the young;
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	Cytoplasm . Nucleus . In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the nucleus. .
<b>Expression :</b>	Eye,Retina,Rhabdomyosarcoma,

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## 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).