

Datasheet for ABIN3031977
anti-NEUROD1 antibody (AA 15-45)

6 Images

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Overview

Quantity:	0.4 mL
Target:	NEUROD1
Binding Specificity:	AA 15-45
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEUROD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 15-45 from the human protein was used as the immunogen for this NeuroD1 antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	NEUROD1
Alternative Name:	NeuroD1 (NEUROD1 Products)
Background:	NeuroD1 acts as a differentiation factor during neurogenesis. They are expressed transiently in a subset of neurons in the central and peripheral nervous systems at the time of their terminal differentiation. NeuroD1 is a basic helix-loop-helix (bHLH) protein contain 1 bHLH domain.

Target Details

NeuroD1 is a transcriptional activator, for efficient DNA binding it requires dimerization with another bHLH protein. It was reported that NeuroD1 involves heterodimerization with the ubiquitous bHLH protein E47, and regulates insulin gene expression by binding to a critical E-box motif on the insulin promoter. Defects in NEUROD1 causes maturity onset diabetes of the young type VI. MODY6 is a form of non-insulin-dependent diabetes mellitus (NIDDM) characterized by an autosomal dominant mode of inheritance, onset during young adulthood and a primary defect in insulin secretion.

UniProt: [Q13562](#)

Pathways: [Dopaminergic Neurogenesis](#), [Hormone Transport](#), [Carbohydrate Homeostasis](#)

Application Details

Application Notes: Titration of the NeuroD1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

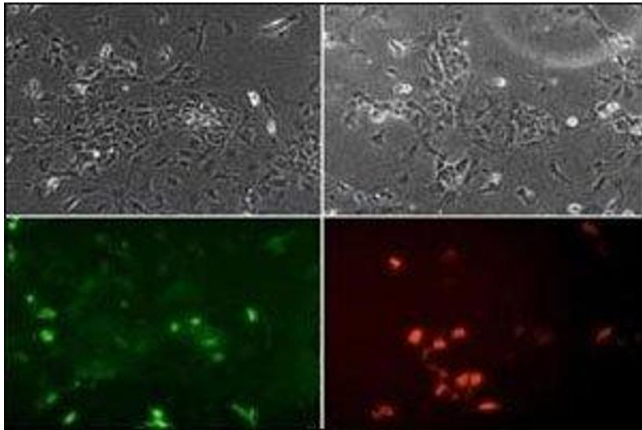
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

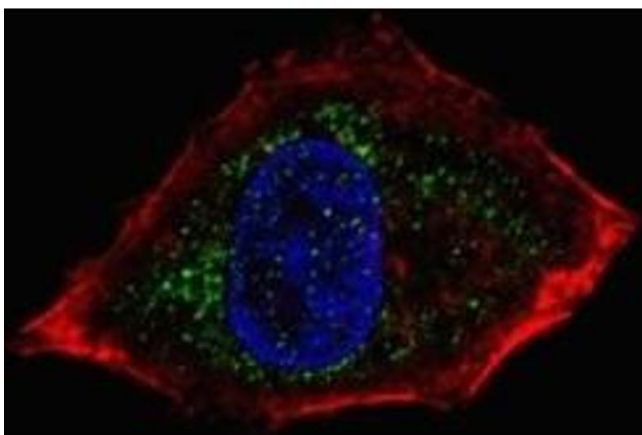
Storage: -20 °C

Storage Comment: Aliquot the NeuroD1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



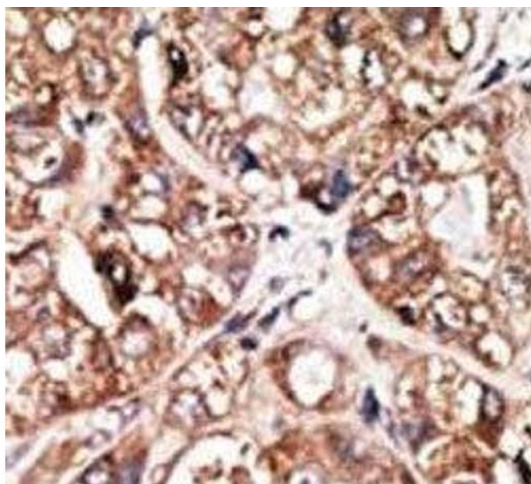
Immunofluorescence

Image 1. ES cells were transiently transfected with Flag-tagged mouse NeuroD1 (tagged on N-term), fixed 24h post transfection and stained for flag tag (red) to check expression. NeuroD1 antibody (1:100) showed predominantly nuclear staining with some cytoplasmic.



Immunofluorescence

Image 2. Fluorescent confocal image of HepG2 cells stained with NeuroD1 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Cytoplasmic actin (red) and nuclei (blue) were counterstained. NeuroD1 immunoreactivity is localized to vesicles.



Immunohistochemistry

Image 3. IHC analysis of FFPE human hepatocarcinoma tissue stained with the NeuroD1 antibody

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3031977.