

Datasheet for ABIN388765  
**anti-NEUROD1 antibody (N-Term)**



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4 Images

## Overview

Quantity:	400 µL
Target:	NEUROD1
Binding Specificity:	AA 15-45, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEUROD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This NeuroD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-45 amino acids from the N-terminal region of human NeuroD1.
Clone:	RB02901
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	NEUROD1
Alternative Name:	NeuroD1 ( <a href="#">NEUROD1 Products</a> )

## Target Details

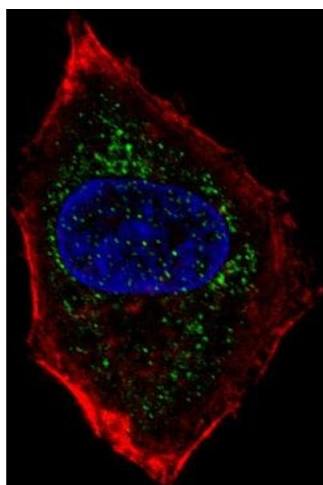
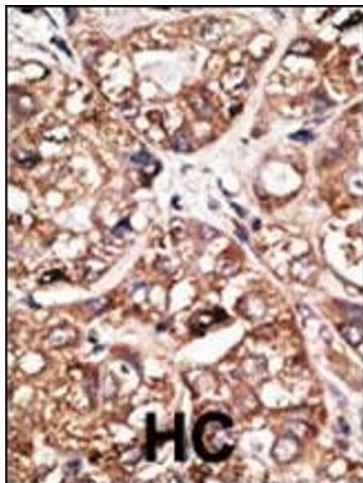
Background:	NeuroD1 acts as a differentiation factor during neurogenesis. They are expressed transiently in a subset of neurons in the central and peripheral nervous systems at the time of their terminal differentiation. NeuroD1 is a basic helix-loop-helix (bHLH) protein contain 1 bHLH domain. NeuroD1 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.
Molecular Weight:	39920
Gene ID:	4760
NCBI Accession:	<a href="#">NP_002491</a>
UniProt:	<a href="#">Q13562</a>
Pathways:	<a href="#">Dopaminergic Neurogenesis</a> , <a href="#">Hormone Transport</a> , <a href="#">Carbohydrate Homeostasis</a>

## Application Details

Application Notes:	IF: 1:10~50. IF: 1:100. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



#### Immunohistochemistry (Paraffin-embedded Sections)

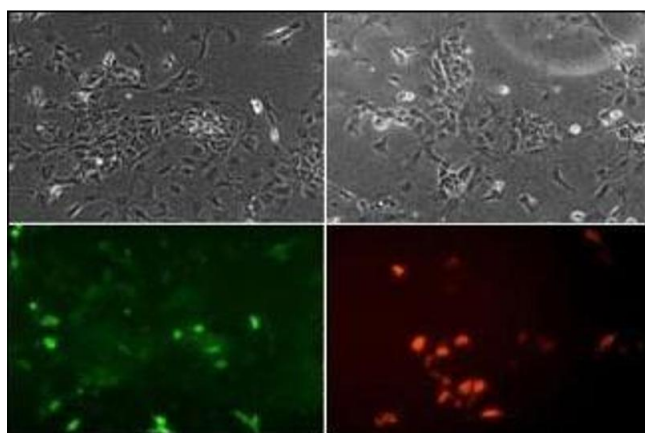
**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.

#### Immunofluorescence

**Image 2.** Fluorescent confocal image of HepG2 cell stained with hNeuroD1-Q30 (ABIN388765 and ABIN2839059). HepG2 cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with hNeuroD1-Q30 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min). hNeuroD1-Q30 immunoreactivity is localized to vesicles significantly.

#### Immunofluorescence

**Image 3.** ES cells were transiently transfected with flag-tagged mouse NeuroD1 (tagged on N-term). Fixed 24h post transfection. Stained for flag tag (red) to check that some cells express protein. Most protein was in nucleus but some was cytoplasmic. Stained with NeuroD1 N-term antibodies at 1:100. NeuroD1 N-term antibody showed strong and clear staining with similar pattern to the flag staining. (Supplied by Sally Lowell, Edinburgh University)



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN388765.