antibodies

# Datasheet for ABIN687652 anti-NEUROD1 antibody (AA 21-120)

2 Images



## Overview

| Quantity:            | 100 µL  |
|----------------------|---|
| Target:              | NEUROD1   |
| Binding Specificity: | AA 21-120   |
| Reactivity:          | Mouse, Rat  |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This NEUROD1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)),<br>Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-<br>embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen<br>Sections) (IHC (fro)) |

## Product Details

| Immunogen:            | KLH conjugated synthetic peptide derived from human NeuroD1 |
|-----------------------|---|
| Isotype:              | lgG   |
| Cross-Reactivity:     | Mouse, Rat  |
| Predicted Reactivity: | Human,Dog,Cow,Pig   |
| Purification:         | Purified by Protein A.                                      |
| Target Details        |   |

Target:

## NEUROD1

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN687652 | 03/07/2024 | Copyright antibodies-online. All rights reserved.

| Target Details      |   |
|---------------------|---|
| Alternative Name:   | NeuroD1 (NEUROD1 Products)  |
| Background:         | Synonyms: BETA2, BHF-1, MODY6, NEUROD, bHLHa3, Neurogenic differentiation factor 1,                 |
|                     | NeuroD1, Class A basic helix-loop-helix protein 3   |
|                     | Background: Acts as a transcriptional activator: mediates transcriptional activation by binding     |
|                     | to E box-containing promoter consensus core sequences 5'-CANNTG-3'. Associates with the             |
|                     | p300/CBP transcription coactivator complex to stimulate transcription of the secretin gene as       |
|                     | well as the gene encoding the cyclin-dependent kinase inhibitor CDKN1A. Contributes to the          |
|                     | regulation of several cell differentiation pathways, like those that promote the formation of early |
|                     | retinal ganglion cells, inner ear sensory neurons, granule cells forming either the cerebellum or   |
|                     | the dentate gyrus cell layer of the hippocampus, endocrine islet cells of the pancreas and          |
|                     | enteroendocrine cells of the small intestine. Together with PAX6 or SIX3, is required for the       |
|                     | regulation of amacrine cell fate specification. Also required for dendrite morphogenesis and        |
|                     | maintenance in the cerebellar cortex. Associates with chromatin to enhancer regulatory              |
|                     | elements in genes encoding key transcriptional regulators of neurogenesis (By similarity).          |
| Gene ID:            | 4760  |
| UniProt:            | Q13562  |
| Pathways:           | Dopaminergic Neurogenesis, Hormone Transport, Carbohydrate Homeostasis                              |
| Application Details |   |
| Application Notes:  | WB 1:300-5000   |
|                     | ELISA 1:500-1000  |
|                     | FCM 1:20-100  |
|                     | IHC-P 1:200-400   |
|                     | IHC-F 1:100-500   |
|                     | IF(IHC-P) 1:50-200  |
|                     | IF(IHC-F) 1:50-200  |
|                     | IF(ICC) 1:50-200  |
| Restrictions:       | For Research Use only   |
| Handling            |   |
| Format:             | Liquid  |

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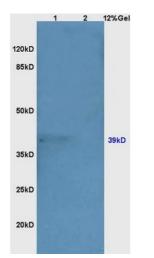
Concentration:

1 μg/μL

## Handling

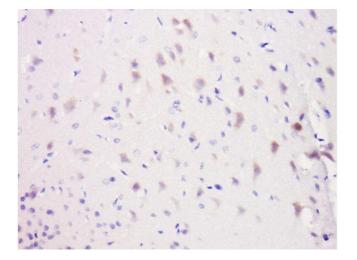
| Buffer:            | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.  |
|--------------------|--|
| Preservative:      | ProClin  |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | 4 °C,-20 °C  |
| Storage Comment:   | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                    |
| Expiry Date:       | 12 months  |

## Images



### SDS-PAGE

**Image 1.** Lane 1: mouse kidney lysates Lane 2: mouse embryo lysates probed with Anti GRM1 Polyclonal Antibody, Unconjugated (ABIN687652) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 129kD. Observed band size: 129kD.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Paraformaldehyde-fixed, paraffin embedded rat brain, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-NeuroD1 Polyclonal Antibody, Unconjugated at 1:500 overnight at 4°C, followed by a conjugated secondary for 90 minutes and DAB staining.