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NEUROD1 Antibody (clone 3D11)

Mouse Monoclonal Antibody
Catalog # ALS14111

Specification

NEUROD1 Antibody (clone 3D11) - Product Information

Application	**WB, IHC**
Primary Accession	Q13562
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**40kDa KDa**

NEUROD1 Antibody (clone 3D11) - Additional Information

Gene ID 4760

Other Names
Neurogenic differentiation factor 1, NeuroD, NeuroD1, Class A basic helix-loop-helix protein 3, bHLHa3, NEUROD1, BHLHA3, NEUROD

Target/Specificity
Human NeuroD1

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
NEUROD1 Antibody (clone 3D11) is for research use only and not for use in diagnostic or therapeutic procedures.

NEUROD1 Antibody (clone 3D11) - Protein Information

Name NEUROD1

Synonyms BHLHA3, NEUROD

Function
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).

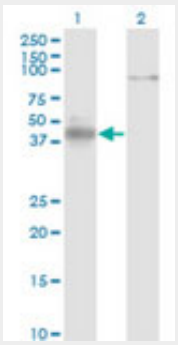
Cellular Location
Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:14752053} Note=In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the nucleus.

NEUROD1 Antibody (clone 3D11) - Protocols

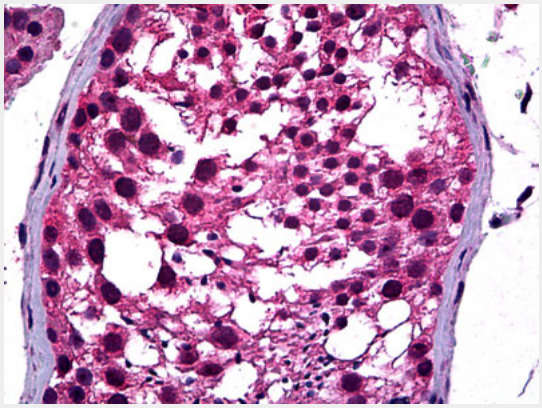
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NEUROD1 Antibody (clone 3D11) - Images



Western blot of NEUROD1 expression in transfected 293T cell line by NEUROD1 monoclonal antibody...



Anti-NEUROD1 antibody IHC of human testis.

NEUROD1 Antibody (clone 3D11) - Background

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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).

NEUROD1 Antibody (clone 3D11) - References

Tamimi R.,et al.Genomics 34:418-421(1996).
Yokoyama M.,et al.Brain Res. Mol. Brain Res. 42:135-139(1996).
Furuta H.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Miyachi T.,et al.Brain Res. Mol. Brain Res. 69:223-231(1999).
Noma T.,et al.Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.