

Product datasheet for **AM31117PU-N**

NEUROD1 (201-300) Mouse Monoclonal Antibody [Clone ID: 3D11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3D11
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	NEUROD1 antibody was raised against NEUROD1 (AAH09046, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag.
Specificity:	This antibody recognizes Human NEUROD1 at aa 201-300.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neuronal differentiation 1
Database Link:	Entrez Gene 4760 Human Q13562



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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.

Synonyms:

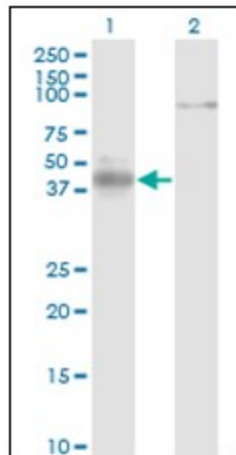
NEUROD1, NEUROD

Protein Families:

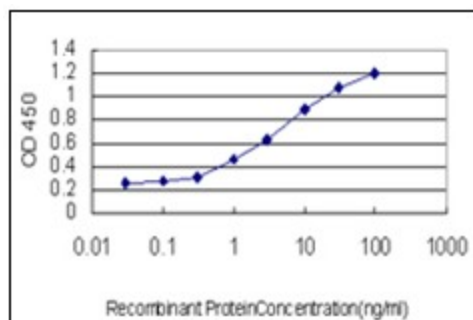
Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways:

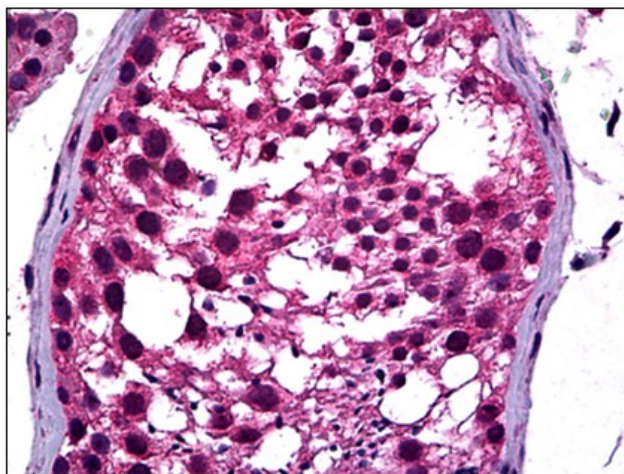
Maturity onset diabetes of the young

Product images:


Western Blot analysis of NEUROD1 expression in transfected 293T cell line by NEUROD1 monoclonal antibody clone 3D11.



Detection limit for recombinant GST tagged NEUROD1 is approximately 0.3ng/ml as a capture antibody.



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)