

**AM31117PU-N****Monoclonal Antibody to NEUROD1 (201-300) - Purified****Alternate names:**

NEUROD, NEUROD1, Neurogenic differentiation factor 1

**Quantity:**

50 µg

**Concentration:**

0.4 mg/ml

**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.

**Uniprot ID:**[Q13562](#)**NCBI:**[NP\\_002491](#)**GeneID:**[4760](#)**Host / Isotype:**

Mouse / IgG

**Clone:**

3D11

**Immunogen:**

NEUROD1 antibody was raised against NEUROD1 (AAH09046, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag.

**Remarks:** MW of the GST tag alone is 26 KDa.

**Format:****State:** Liquid purified Ig fraction**Purification:** Affinity Chromatography on Protein A**Buffer System:** PBS, pH 7.2**Applications:****ELISA.****Immunohistochemistry on Paraffin Sections:** 5 µg/ml.**Western Blot.**

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

This antibody recognizes Human NEUROD1 at aa 201-300.

**Storage:**

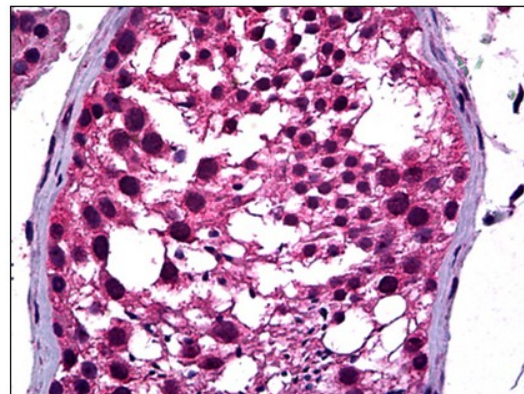
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

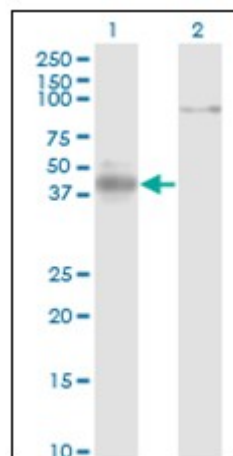
Shelf life: one year from despatch.

**Pictures:**

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



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.

