

## Anti-NEUROD1 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Pig,Cow)
Molecular Weight:	Theoretical: 40 kDa. Actual: 49 kDa.
Purification:	Protein A purified

### Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-NeuroD1 Polyclonal Antibody, Unconjugated (TMAB-09386) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

2. Blank control: Mouse spleen.

Primary Antibody (green line): Rabbit Anti-Neuro D1/AF647 Conjugated antibody (TMAB-09386-AF647)

Dilution: 0.2 µg / 10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG-AF647.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature. Acquisition of 20,000 events was performed.

Verified Activity:

3. Sample:

Lane 1: Stomach (Mouse) Lysate at 40 µg

Lane 2: Spinal cord (Mouse) Lysate at 40 µg

Primary: Anti-NeuroD1 (TMAB-09386) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

Observed band size: 49 kD

4. Sample:

Lane 1: Cerebellum (Mouse) Lysate at 40 µg

Lane 2: Cerebrum (Mouse) Lysate at 40 µg

Primary: Anti-NeuroD1 (TMAB-09386) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

Observed band size: 49 kD

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 0.2µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human NEUROD1

Antigen Species: Human

Gene ID: 4760

Uniprot ID: Q13562

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### Research Background

This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul 2008]

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