

bs-1517R**[Primary Antibody]****NEUROD1 Rabbit pAb****Bioss**
ANTIBODIES

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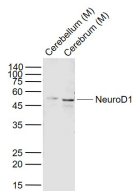
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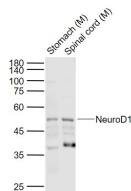
400-901-9800

— DATASHEET —

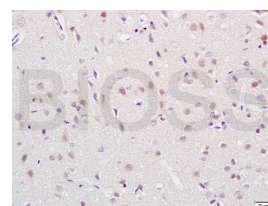
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (0.2ug/test)
Clonality: Polyclonal		
GeneID: 4760	SWISS: Q13562	
Target: NEUROD1		
Immunogen: KLH conjugated synthetic peptide derived from human NEUROD1: 21-120/356.		
Purification: affinity purified by Protein A		Reactivity: Mouse, Rat (predicted: Human, Pig, Cow, Dog)
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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]		
		Predicted MW.: 40 kDa Subcellular Location: Cytoplasm ,Nucleus

— VALIDATION IMAGES —

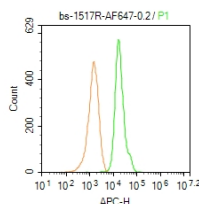
Sample: Lane 1: Cerebellum (Mouse) Lysate at 40 ug
 Lane 2: Cerebrum (Mouse) Lysate at 40 ug
 Primary: Anti- NeuroD1 (bs-1517R) at 1/2000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 49 kD
 Observed band size: 49 kD



Sample: Lane 1: Stomach (Mouse) Lysate at 40 ug
 Lane 2: Spinal cord (Mouse) Lysate at 40 ug
 Primary: Anti-NeuroD1 (bs-1517R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 49 kD
 Observed band size: 49 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-NeuroD1 Polyclonal Antibody, Unconjugated (bs-1517R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-Neuro D1/AF647
 Conjugated antibody (bs-1517R-AF647) Dilution: 0.2µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG-AF647. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90%

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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.

— SELECTED CITATIONS —

- **[IF=2.535]** Song X et al. Anti-aging effects exerted by Tetramethylpyrazine enhances self-renewal and neuronal differentiation of rat bMSCs by suppressing NF-κB signaling. Biosci Rep. 2019 Jun 25;39(6). pii: BSR20190761. WB ;Rat. 31171713