NeuroD1 Antibody



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| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 49 | Source/Isotype: Rabbit | UniProt ID: #Q13562 | Entrez-Gene Id: 4760 |
|--|------------------|--|--|---|--|--|
| Product Usage Information | | ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:50 | | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | NeuroD1 Antibody detects endogenous levels of total NeuroD1 protein. | | | | |
| Species predicted to react based on 100% sequence homology | | Mouse, Rat | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human NeuroD1. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| Background | | proteins function by for sequence CANNTG (1,, Ser336, which is necest phosphorylated at Ser stimulates NeuroD1 and neurons (3). NeuroD1 plays a large role in the become severely diabolack of NeuroD1 in the | orming heterodime 2). Neuronal activity sary for formation 274 though the resctivity in pancreatic is crucially importa e development of the etic and die shortly thrain results in seventer 2). | pop-helix (bHLH) family rs with E-proteins and by results in CaMKII-medi and growth of dendrites ults are context depend β-cells while phosphory in both the pancreas he inner ear and mammafter birth due to defect vere defects in developmentuding type I diabetes | inding to the canon ated phosphorylatis (3,4). NeuroD1 is a ent as phosphoryla dation by GSK-3β in and developing nerualian retina (3). Micts in β-cell differentinent (5). Human mu | nical E-box on of NeuroD1 at also tion by Erk hibits NeuroD1 in vous system, and te lacking NeuroD1 iation (2,3,5,6). The atations have been |
| Background References | | 1. Schonhoff, S.E. et al. (2004) <i>Endocrinology</i> 145, 2639-2644. 2. Sharma, A. et al. (1999) <i>Mol. Cell Biol.</i> 19, 704-713. 3. Chae, J.H. et al. (2004) <i>Mol. Cells</i> 18, 271-288. 4. Gaudillière, B. et al. (2004) <i>Neuron</i> 41, 229-241. 5. Miyata, T. et al. (1999) <i>Genes Dev.</i> 13, 1647-1652. 6. Naya, F.J. et al. (1997) <i>Genes Dev.</i> 11, 2323-2334. | | | | |
| Species Reactivity | | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | |
| Western Blot Buffer | | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | |

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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