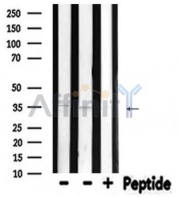
NEUROD1 Ab

Images(1)

Cat.#: DF6281	Concn.: ~1mg/ml	Mol.Wt.: 40kDa
Size:	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500 *The optimal dilutions should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Storage:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Immunogen:	A synthesized peptide derived from human NEUROD1, corresponding to a region within N-terminal amino acids.
Uniprot:	Q13562
Description:	NeuroD is a member of the basic helix-loop-helix (bHLH) family of transcription factors. These proteins function by forming heterodimers with E-proteins and binding to the canonical E-box sequence CANNTG (1,2). Neuronal activity results in CaMKII-mediated phosphorylation of NeuroD at Ser336, which is necessary for formation and growth of dendrites (3,4). NeuroD is also phosphorylated at Ser274 though the results are context dependent as phosphorylation by Erk stimulates NeuroD activity in pancreatic ?-cells while phosphorylation by GSK-3? inhibits NeuroD in neurons . NeuroD is crucially important in both the pancreas and developing nervous system, and plays a large role in the development of the inner ear and mammalian retina .



Western blot analysis of extracts from various samples, using NEUROD1 Ab.
Lane 1: Rat spleen lysates;
Lane 2: Rat brin lysates;
Lane 3: Rat brin lysates treated with blocking peptide;

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

procedures. Not for resale without express authorization.