Data Sheet (Cat.No.TMAC-02784)

TargetMol

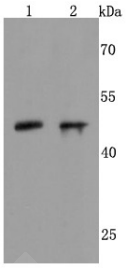
Anti-NeuroD1 Antibody (2M112)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 45 kDa.
Clone:	2M112
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of NeuroD1 on different cells lysates using anti-NeuroD1 antibody at 1/500 dilution. Positive control: Line 1: human brain, Line 2:SH-SY5Y.



Application:	IP,WB
Recommended	WB: 1:500-1000; IP: 1:10-50

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q13562
Synonyms:	NeuroD 1;Neurogenic differentiation factor 1;Class A basic helix-loop-helix protein 3;NEUROD; BHLHA3

Research Background

The basic helix-loop-helix (bHLH) proteins are transcription factors that are required for several aspects of development, including cell type determination, terminal differentiation and sex determination. The HLH domain is required for dimerization, while the basic region makes specific contacts with DNA. Members of the myogenic determination family, MyoD, myf5, myogenin and MRF4, all have bHLH domains. These proteins heterodimerize with members of the E protein family and initiate myogenesis. Neuro D has been identified as a bHLH transcription factor functioning in neurogenic differentiation. Neuro D is expressed transiently in a subset of neurons in the central and peripheral nervous systems at the time of their terminal differentiation into mature neurons. Moreover, ectopic expression of Neuro D in Xenopus embryos induces premature differentiation of neuronal precursors and Neuro D

can convert presumptive epidermal cells into neurons.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481