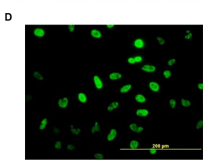
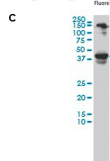
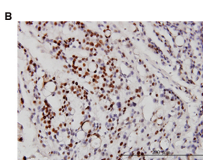
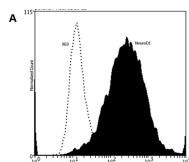


Mouse monoclonal antibody to human NeuroD1 [3H8]: IgG

Catalogue No.:	M-850-100
Description:	NeuroD1 is a differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar cortex. It is a transcriptional activator and binds to the insulin gene E-box. Efficient DNA binding requires dimerisation with another basic helix-loop-helix protein. In islet cells, NeuroD1 is phosphorylated on Ser-274 upon glucose stimulation and in activated neurons it is phosphorylated on Ser-335, which promotes dendritic growth. Defects in NeuroD1 cause maturity onset diabetes of the young type 6 (MODY6). It is characterised by the onset of diabetes during young adulthood and a primary defect in insulin secretion.
Batch No.:	See product label
Unit size:	100 ug
Antigen:	Partial recombinant human NeuroD1 (201-300) with a GST tag.
Isotype:	IgG2a
Clone:	3H8
Other Names:	Neurogenic differentiation factor 1; NeuroD; NEUROD1; NEUROD
Accession:	NDF1_HUMAN
Produced in:	Mouse
Purity:	Protein G purified immunoglobulin
Applications:	This antibody is recommended for WB, IHC, sandwich ELISA, immunofluorescence, Flow Cytometry. The recommended dilution for this antibody is 3 ug/mL for IHC and 10 ug/mL for immunofluorescence. Use ~2 ug per 10 ⁶ cells for Flow Cytometry. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specificity has been confirmed by WB and direct ELISA against the antigen.
Cross-reactivity:	Human. Other species have not been tested.
Form:	Lyophilised from PBS pH 7.2
Reconstitution:	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution keep aliquots at -20C for higher stability or at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for additional stability. Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase



A: Specific staining of NeuroD1 expressed in human neuroblastoma SH-SY5Y cell line by Flow Cytometry using cat # M-850-100. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 ug/mL Normal Sheep IgG (20 minutes), Primary antibody: Mouse Monoclonal antibody to NeuroD1 (2 ug per ~10⁶ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 dilution), 20 minutes in dark at room temperature. Negative control: Non-specific Control IgG, clone X63 (cat # M-1249-200, black dashed). Data and results were generated using Orflo MoxiflowTM instrument and protocols.

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B: Immunohistochemical detection of NeuroD1 on formalin fixed, paraffin-embedded, human ovary, clear cell carcinoma. Anti-NeuroD1 primary antibody was used at a concentration of 3 µg/ml. C: Western blot detection of NeuroD1 expression in human neuroblastoma cell lysate. D: Immunofluorescent detection of NeuroD1 in HeLa cells. Antibody concentration: 10 µg/ml.

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