Human/Mouse NeuroD1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2746

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects NeuroD1 in direct ELISAs and Western blots. In these formats, approximately 5% cross-reactivity with recombinant human NeuroD2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NeuroD1 Ser154-Asp356 Accession # Q13562
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

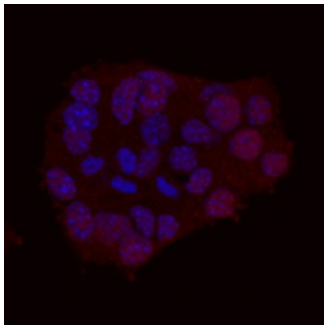
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human NeuroD1
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



NeuroD1 in βTC-6 Mouse Cell Line. Neurogenic Differentiation factor 1 (NeuroD1) was detected in immersion fixed βTC-6 mouse beta cell insulinoma cell line using Human/Mouse NeuroD1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2746) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NeuroD1, also known as beta-cell E-box transactivator 2 (Beta 2), is a basic helix-loop-helix transcription factor. It is expressed during development in various neurons of the central and peripheral nervous systems. NeuroD1 is also expressed in beta-cells in the pancreas where it functions both as a transcriptional activator and repressor.

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