

NeuroD1 Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of mouse NeuroD1. The exact sequence is proprietary.
Form	Liquid
Concentration	0.47 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2736208

Applications

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ChIP assay (ChIP)	2.5 µg/10 ⁶ cells	-

Product Specific Information

Positive Control: IMR32, IMR32 nuclear extract

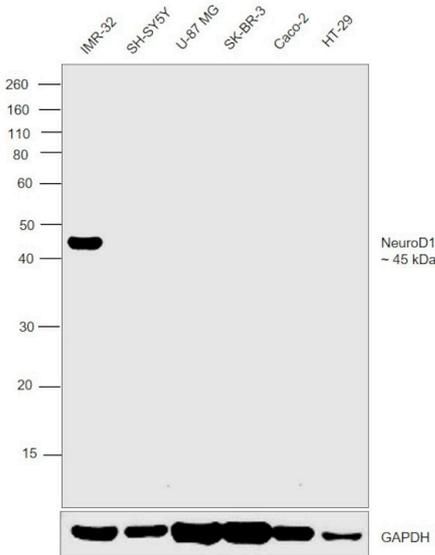
Predicted Reactivity: Mouse (100%), Bovine (100%)

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For NeuroD1 Polyclonal Antibody

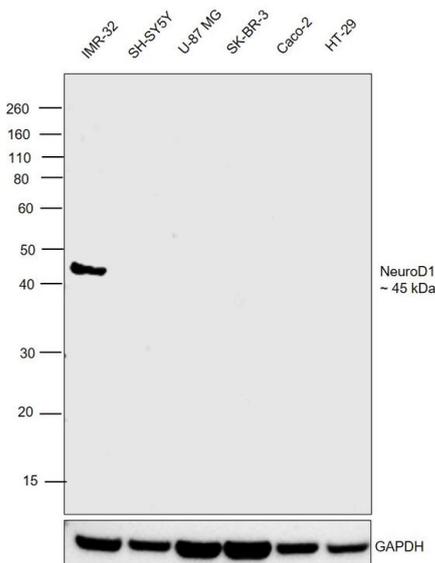
NeuroD1 Antibody (PA5-78075)

Antibody specificity was demonstrated by the detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of NeuroD1 was observed between the MYCN amplified cell line, IMR32 as opposed to SH-SY5Y and U-87 MG, which are non-MYCN amplified cell lines, using Anti-NeuroD1 Polyclonal Antibody (Product # PA5-78075) in Western Blot. (doi: 10.3727/096504021X16401852341873). The other cell lines are also of non-neuronal lineage and express NeuroD1 at a relatively lower level than IMR-32. {RE}



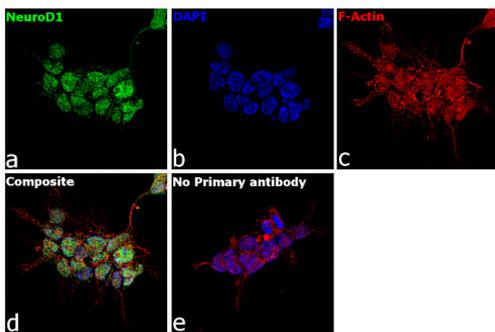
NeuroD1 Antibody (PA5-78075) in WB

Western blot was performed using Anti-NeuroD1 Polyclonal Antibody (Product # PA5-78075) and a 45 kDa band corresponding to NEUROD1 was observed only in the IMR-32 cell line, that expresses NeuroD1 at high levels. Nuclear enriched extracts (30 µg lysate) of IMR-32 (Lane 1), SH-SY5Y (Lane 2), U-87 MG (Lane 3), SK-BR-3 (Lane 4), Caco-2 (Lane 5), HT-29 (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20,000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Pico PLUS Chemiluminescent Substrate (Product # 34580).



NeuroD1 Antibody (PA5-78075) in ICC/IF

Immunofluorescence analysis of NeuroD1 was performed using 70% confluent log phase IMR-32. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with NeuroD1 Rabbit Polyclonal Antibody (Product # PA5-78075) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing Nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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