

NeuroD1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rat, Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	E. coli-derived recombinant human NeuroD1 Ser154-Asp356
Form	Lyophilized
Concentration	0.2 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5% trehalose
Contains	No Preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2607915

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	5-15 µg/mL	-
ChIP assay (ChIP)	2.5 µg/10 ⁶ cells	-

Product Specific Information

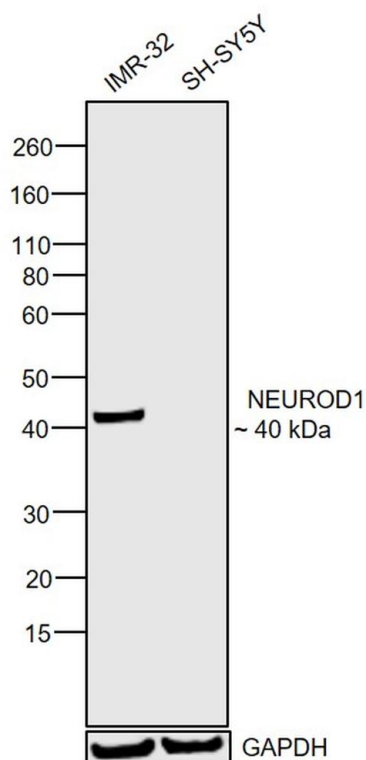
Approximately 5% cross-reactivity with recombinant human NeuroD2 is observed.

Reconstitute at 0.2 mg/mL in sterile PBS.

Product Images For NeuroD1 Polyclonal Antibody

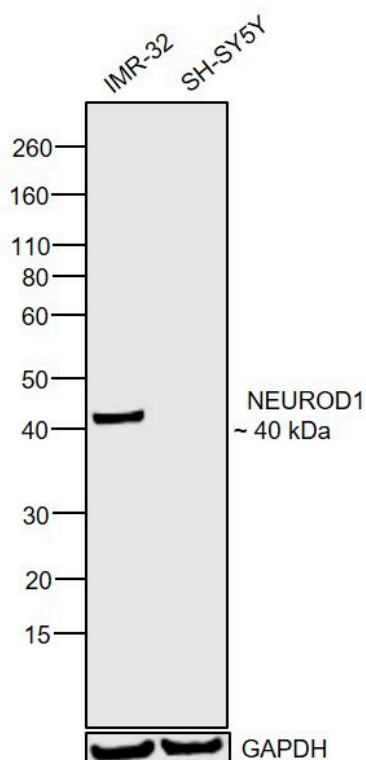
NeuroD1 Antibody (PA5-47381) in WB

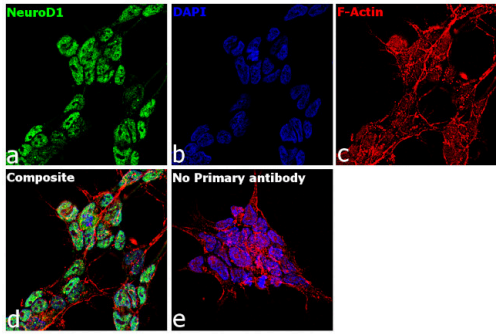
Western blot was performed using Anti-NeuroD1 Polyclonal Antibody (Product # PA5-47381) and a 40 kDa band corresponding to NeuroD1 was observed in IMR-32 which is reported to be highly expressing cell model in comparison to SH-SY5Y. Modified whole cell extracts (1% SDS) (30 µg lysate) of IMR-32 (Lane 1) and SH-SY5Y (Lane 2) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



NeuroD1 Antibody (PA5-47381)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of NEUROD1 was observed in IMR-32 in comparison to SH-SY5Y using Anti-NeuroD1 Polyclonal Antibody (Product # PA5-47381) in Western Blot. {RE}





NeuroD1 Antibody (PA5-47381) in ICC/IF

Immunofluorescence analysis of NeuroD1 was performed using 70% confluent log phase IMR-32 cells. 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 Goat Polyclonal Antibody (Product # PA5-47381) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Rabbit anti-Goat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488 (Product # A-11078) 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.

[View more figures on thermofisher.com](#)

2 References

Immunohistochemistry (2)

<p>Nature communications</p> <p>Single-cell RNA-sequencing identifies disease-associated oligodendrocytes in male APP NL-G-F and 5XFAD mice.</p> <p>"PA5-47381 was used in Immunohistochemistry-immunofluorescence to study the pathological roles of oligodendrocytes in Alzheimer's disease (AD)."</p> <p>Authors: Park H,Cho B,Kim H,Saito T,Saido TC,Won KJ,Kim J</p>	<p>Year 2023</p> <p>Species Mouse</p> <p>Dilution 1:250</p>
<p>Molecular medicine reports</p> <p>Abnormal differentiation of stem cells into enteroendocrine cells in rats with DSS-induced colitis.</p> <p>"PA5-47381 was used in Immunohistochemistry to study the association between abnormalities in enteroendocrine cells in dextran sulphate sodium colitis and the clonogenic and proliferative activities of stem cells."</p> <p>Authors: El-Salhy M,Umezawa K,Hatlebakk JG,Gilja OH</p>	<p>Year 2017</p> <p>Species Rat</p> <p>Dilution 1:50</p>

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