

NeuroD1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rat
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)	-	1 Publication
Immunocytochemistry (ICC/IF)	5-15 µg/mL	-
ChIP assay (ChIP)	2.5 µg/10 ⁶ cells	-

Product Specific Information

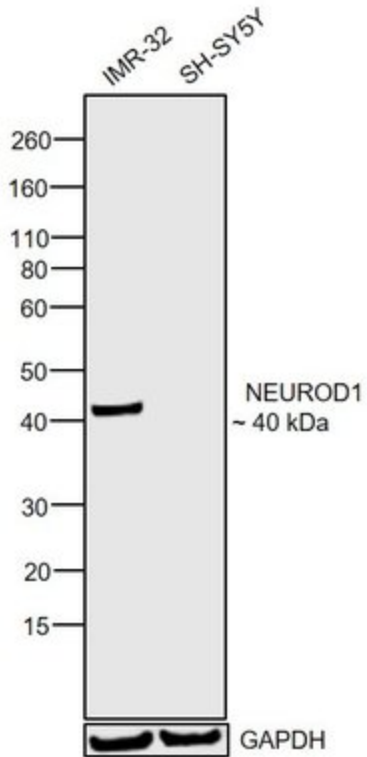
Approximately 5% cross-reactivity with recombinant human NeuroD2 is observed.

Reconstitute at 0.2 mg/mL in sterile PBS.

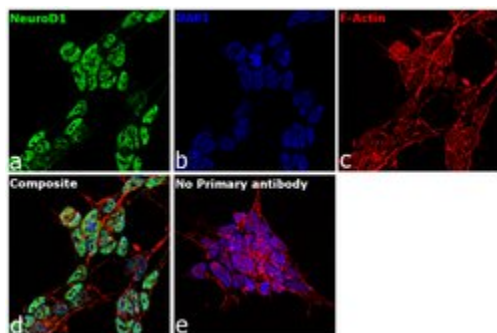
Advanced Verification Data

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. Relative expression validation info.

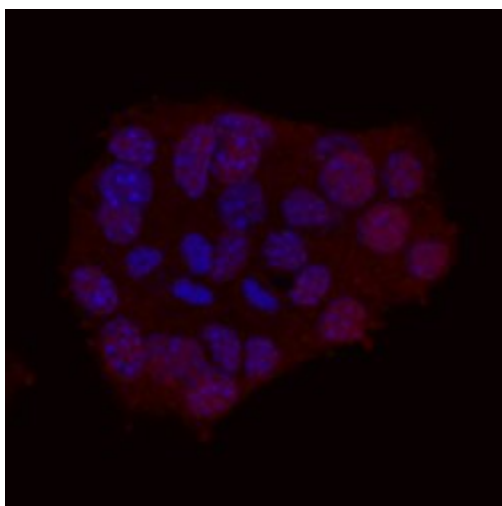


Product Images For NeuroD1 Polyclonal Antibody



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.



NeuroD1 Antibody (PA5-47381) in ICC/IF

Immunocytochemical analysis of 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 (Product # PA5-47381) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the 557-conjugated Anti-Goat IgG Secondary Antibody (red) and counterstained with DAPI (blue).

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

1 Reference

Immunohistochemistry (1)

Molecular medicine reports

Abnormal differentiation of stem cells into enteroendocrine cells in rats with DSS-induced colitis.

"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."

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Species
Rat

Dilution
1:50

Year
2017

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