

Rabbit anti-Human, mouse Neurogenin3 Polyclonal Antibody | anti-NEUROG3 antibody

Neurogenin3 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28645	Rabbit	Human, mouse	Western Blot, ELISA, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

Neurogenin3; Polyclonal Antibody; Neurogenin3 Antibody (N-term); Neurogenin-3; NGN-3; Class A basic helix-loop-helix protein 7; bHLHa7; Protein atonal homolog 5; NEUROG3; ATOH5; BHLHA7; NGN3; anti-NEUROG3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Neurogenin3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-69 amino acids from the N-terminal region of human Neurogenin3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	40-69
Sequence Length	214
Applicable Applications for anti-NEUROG3 antibody	WB (Western Blot), ELISA, IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	IF~~1:10~50 WB~~1:2000 IHC-P~~1:25
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Acts as a transcriptional regulator. Together with NKX2-2, initiates transcriptional activation of NEUROD1. Involved in neurogenesis. Also required for the specification of a common precursor of the 4 pancreatic endocrine cell types (By similarity).
Cellular Location	Nucleus[ECO:0000255 PROSITE-ProRule:PRU00981].
Preparation and Storage	Maintain refrigerated at 2-8°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



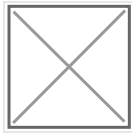
IHC (Immunohistochemistry)
AAA28645 staining Neurogenin3 in human pancreas tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA28645 staining Neurogenin3 in human small intestine tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



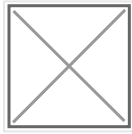
WB (Western Blot)
Anti-Neurogenin3 Antibody (N-term) at 1:2000 dilution + THP-1 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Anti-Neurogenin3 Antibody (N-term) at 1:500 dilution + Human placenta tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
All lanes : Anti-Neurogenin3 Antibody (N-term) at 1:2000 dilution Lane 1: DU145 whole cell lysate Lane 2: LNCap whole cell lysate Lane 3: PANC-1 whole cell lysate Lane 4: PC-3 whole cell lysate Lysates/proteins at 20 ?g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of Neurogenin3 Antibody (N-term) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-NEUROG3 antibody	Neurogenin-3 belongs to a family of basic helix-loop-helix transcription factors involved in the determination of neural precursor cells in the neuroectoderm. Neurogenin-3 also required for the specification of a common precursor of the 4 pancreatic endocrine cell types. Defects in NEUROG3 are the cause of congenital malabsorptive diarrhea 4 (DIAR4). DIAR4 is an autosomal recessive disorder characterized by generalized malabsorption and a paucity of enteroendocrine cells.
Product Categories/Family for anti-NEUROG3 antibody	Neuroscience; Signal Transduction
References	Heremans, Y., et al., J. Cell Biol. 159(2):303-312 (2002). Sommer, L., et al., Mol. Cell. Neurosci. 8(4):221-241 (1996).

NCBI AND UNIPROT INFORMATION

NCBI GI #	68989258
NCBI GeneID	50674
NCBI Accession #	NP_066279.2
NCBI GenBank Nucleotide #	NM_020999.3
UniProt Accession #	Q9Y4Z2; Q5VV10; Q6DJX6; Q9BY24
NCBI Official Full Name	neurogenin-3
NCBI Official Synonym Full Names	neurogenin 3

NCBI Official Symbol	NEUROG3
NCBI Official Synonym Symbols	ngn3; Atoh5; NGN-3; Math4B; bHLHa7
NCBI Protein Information	neurogenin-3
UniProt Protein Name	Neurogenin-3
UniProt Gene Name	NEUROG3
UniProt Synonym Gene Names	ATOH5; BHLHA7; NGN3; NGN-3; bHLHa7
UniProt Entry Name	NGN3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/neurogenin3-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/28645>