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Neurogenin3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2024A

Product Information

Application	WB, IF, IHC-P, E
Primary Accession	Q9Y4Z2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23077
Antigen Region	40-69

Additional Information

Gene ID	50674
Other Names	Neurogenin-3, NGN-3, Class A basic helix-loop-helix protein 7, bHLHa7, Protein atonal homolog 5, NEUROG3, ATOH5, BHLHA7, NGN3
Target/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.
Dilution	WB~~1:1000 IF~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
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.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Neurogenin3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NEUROG3
Synonyms	ATOH5, BHLHA7, NGN3
Function	Is a transcriptional regulator involved in the control of enteroendocrine cell

differentiation (PubMed:21378176). Together with NKX2-2, initiates transcriptional activation of NEUROD1 (PubMed:16855267, PubMed:21378176). 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}.

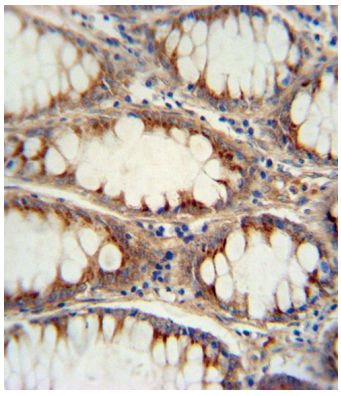
Background

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.

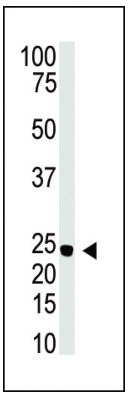
References

Heremans, Y., et al., J. Cell Biol. 159(2):303-312 (2002). Sommer, L., et al., Mol. Cell. Neurosci. 8(4):221-241 (1996).

Images

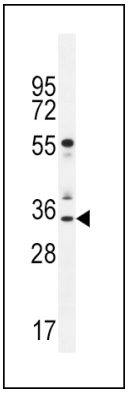


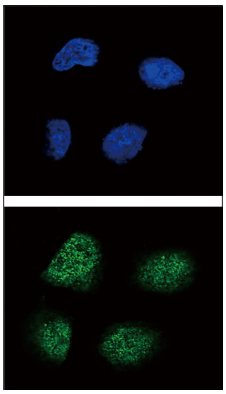
Neurogenin3 Antibody (N-term) (Cat. #AP2024a) immunohistochemistry analysis in formalin fixed and paraffin embedded human large intestine followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Neurogenin3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



The Neurogenin3 (N-term) polyclonal antibody (Cat. #AP2024a) is used in Western blot to detect Neurogenin3 in mouse liver tissue lysate.

Neurogenin3 Antibody (N-term) (Cat. #AP2024a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the Neurogenin3 antibody detected the Neurogenin3 protein (arrow).





Confocal immunofluorescent analysis of Neurogenin3 Antibody (N-term) (Cat#AP2024a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.