

Neurogenin3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2024A

Product Information

Application WB, IF, IHC-P, E

Primary Accession <u>Q9Y4Z2</u>

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGCalculated MW23077Antigen Region40-69

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/SpecificityThis 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 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}.

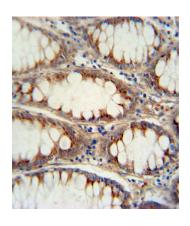
Background

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.

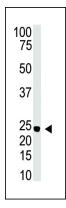
References

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

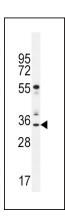


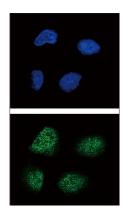
Neurogenin3 Antibody (N-term) (Cat. #AP2024a) immunohistochemistry analysis in formalin fixed and paraffin embedded human large intestine followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Neurogenin3 Antibody (N-term) for immunohistochemistry. 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 IgG (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'.