

Rabbit Anti-Neurogenin 3/AP Conjugated antibody

SL0922R-AP

Product Name	Anti-Neurogenin 3/AP
Chinese Name	碱性磷酸酶（AP）标记的神经元素 3 抗体
Alias	NGN3; neurogenin 3; Neurog3; Neurogenin3; Neurogenin-3; ATH4B; Atoh5; Math4B; NEUROG3; ngn3; OTTHUMP00000019730; Protein atonal homolog 5.
Research Area	Cell biology Neurobiology Signal transduction transcriptional regulatory factor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Cow,Sheep)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	23kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NGN3
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: Neurogenin-3 (NEUROG3) is expressed in endocrine progenitor cells and is required for endocrine cell development in the pancreas and intestine (Wang et al., 2006 [PubMed 16855267]). It belongs to a family of basic helix-loop-helix

transcription factors involved in the determination of neural precursor cells in the neuroectoderm.

Function:

Involved in neurogenesis. Also required for the specification of a common precursor of the 4 pancreatic endocrine cell types.

Subcellular Location:

Nucleus.

DISEASE:

Defects in NEUROG3 are the cause of diarrhea type 4 (DIAR4) [MIM:610370]. DIAR4 is a characterized by severe, life-threatening watery diarrhea associated with generalized malabsorption and a paucity of enteroendocrine cells.

Similarity:

Contains 1 basic helix-loop-helix (bHLH) domain.

Database links:

[Entrez Gene: 50674](#) Human

[Entrez Gene: 11925](#) Mouse

[Entrez Gene: 60329](#) Rat

[Omim: 604882](#) Human

[SwissProt: Q9Y4Z2](#) Human

[SwissProt: P70661](#) Mouse

[Unigene: 532682](#) Human

[Unigene: 57236](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Neurobiology 相关蛋白 (Neurobiology)

Ngn3 属于 bHLH 家族蛋白, 是胰腺发育过程中短暂表达的蛋白, 可能是

胰腺内分泌细胞系的定向因子，一般在成熟胰岛中不存在。

Ngn3 的表达会导致胰腺内分泌细胞数的增加外分泌细胞数的减少。因而胰岛 β 细胞并不是完全靠 Stem cells 分化产生，主要是通过已分化胰岛 β 细胞的分裂增殖。

但近年来，有学者认为：Ngn3 虽在胰腺发育中短暂表达，但是否存在使胰岛 Stem cells 或前体细胞自我更新的能力尚未明确定论。