

Rabbit Anti-Neurogenin3 antibody

SL0922R

Product Name	Neurogenin3
Chinese Name	神经元素 3 抗体
Alias	NGN3; NGN-3; neurogenin 3; Neurog3; Neurogenin-3; ATH4B; Atoh5; Math4B; NEUROG3; ngn3; OTTHUMP00000019730; Protein atonal homolog 5; Class A basic helix-loop-helix protein 7; NGN3_HUMAN.
Research Area	Cell biology Neurobiology Stem cells transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat, Dog, Cow, Sheep,) WB=1:500-2000 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	23kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NGN3: 61-160/214
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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.

SWISS:

Q9Y4Z2

Gene ID:

50674

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

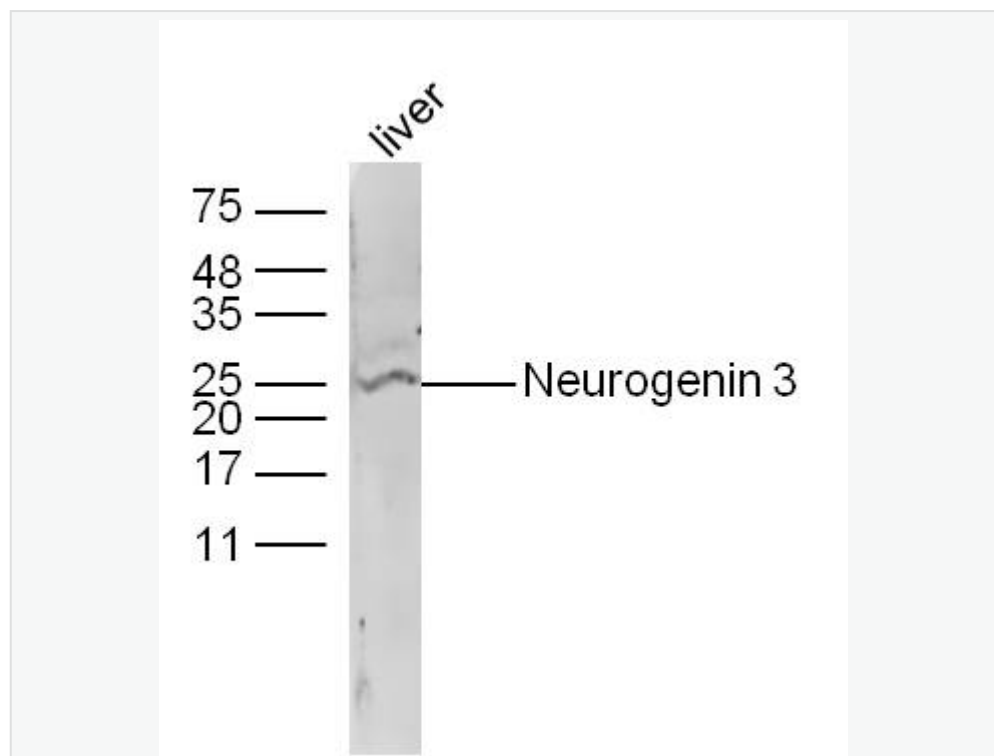
Neurobiology 相关蛋白 (Neurobiology)

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。

Product Picture



Sample:Liver(Mouse) Lysate at 30 ug

Primary: Anti-Neurogenin3 (SL0922R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 23 kD

Observed band size: 26 kD



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