



## Rabbit Anti-Neurogenin 3 antibody

SL0922R

<b>Product Name:</b>	Neurogenin 3
<b>Chinese Name:</b>	神经元素3抗体
<b>Alias:</b>	NGN3; neurogenin 3; Neurog3; Neurogenin3; Neurogenin-3; ATH4B; Atoh5; Math4B; NEUROG3; ngn3; OTTHUMP00000019730; Protein atonal homolog 5.
<b>文献引用</b> <b>PubMed</b> :	<b>Specific References(1)</b>  SL0922R has been referenced in 1 publications. <b>[IF=2.08]</b> Jian, Ruo-Lei, et al. "Generation of insulin-producing cells from C3H10T1/2 mesenchymal progenitor cells." Gene (2015). <b>WB;Mouse.</b> <a href="#">PubMed:25724395</a>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	23kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NGN3:61-160/214
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed:**[PubMed](#)

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 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

**Product Detail:**

**Important Note:**

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

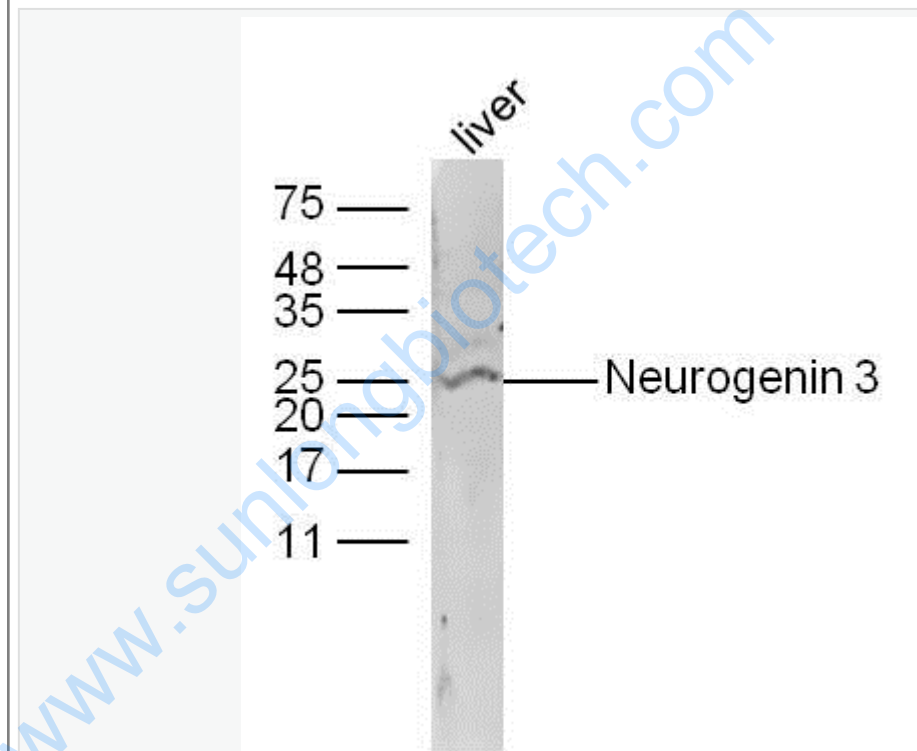
**Neurobiology相关蛋白 (Neurobiology)**

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。

**Picture:**



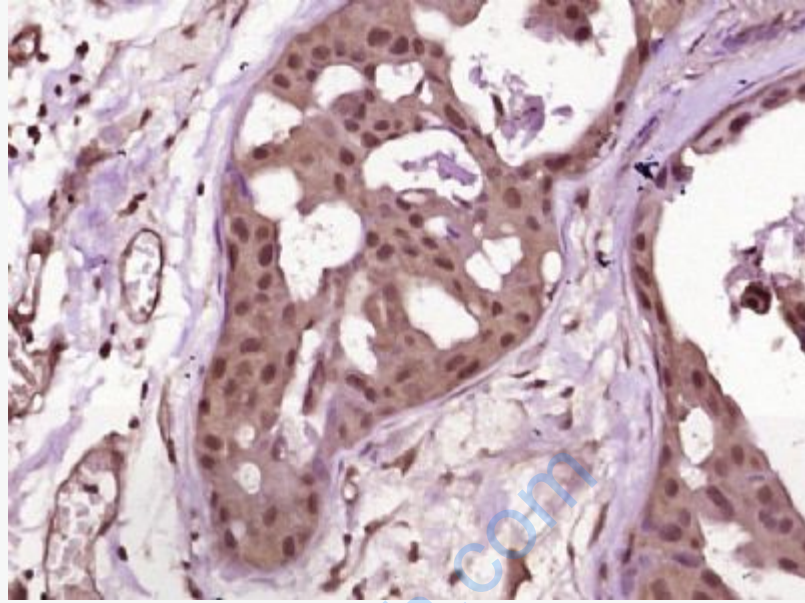
Sample: Liver(Mouse) Lysate at 30 ug

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

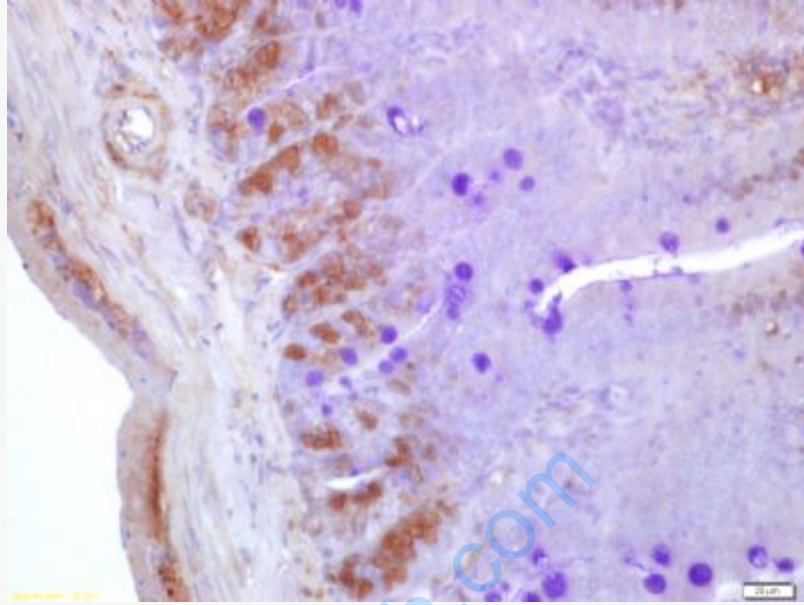
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 23 kD

Observed band size: 26 kD



Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurogenin 3) Polyclonal Antibody, Unconjugated (SL0922R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Neurogenin 3 Polyclonal Antibody, Unconjugated(SL0922R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining