



Rabbit Anti-phospho-NeuroD1 (Ser274) antibody

SL19218R

Product Name:	phospho-NeuroD1 (Ser274)
Chinese Name:	磷酸化神经Cell differentiation因子1抗体
Alias:	NeuroD1 (phospho S274); p-NeuroD1 (phospho S274); atonal; basic helix loop helix transcription factor; BETA 2; Beta cell E box transactivator 2; BETA2; BHF 1; BHF1; bHLHa3; class A basic helix loop helix protein 3; Class A basic helix-loop-helix protein 3; MODY 6; MODY6; NDF1_HUMAN; NEUROD; NeuroD1; Neurogenic differentiation 1; Neurogenic differentiation factor 1; neurogenic helix loop helix protein NEUROD; NIDDM.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised acetylpeptide derived from human NeuroD1 around the acetylation site of Ser274:PL(p-S)PP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus. [provided by RefSeq, Jul 2008]

Function:

Differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar cortex. Transcriptional activator. Binds to the insulin gene E-box.

Subcellular Location:

Cytoplasm. Nucleus.

Post-translational modifications:

Phosphorylated. In islet cells, phosphorylated on Ser-274 upon glucose stimulation; which may be required for nuclear localization. In activated neurons, phosphorylated on Ser-335; which promotes dendritic growth.

DISEASE:

Defects in NEUROD1 are the cause of maturity-onset diabetes of the young type 6 (MODY6) [MIM:606394]. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.

Similarity:

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

SWISS:

Q13562

Gene ID:

4760

Database links:

[Entrez Gene: 4760](#) Human

[Entrez Gene: 18012](#) Mouse

[Entrez Gene: 29458](#) Rat

[Omim: 601724](#) Human

[SwissProt: Q13562](#) Human

Product Detail:

[SwissProt: Q60867](#) Mouse

[SwissProt: Q64289](#) Rat

[Unigene: 574626](#) Human

[Unigene: 709709](#) Human

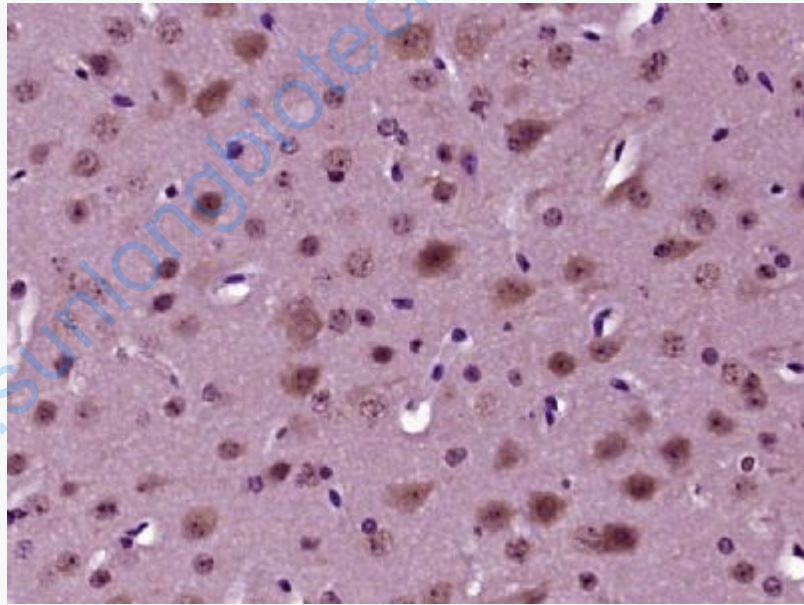
[Unigene: 4636](#) Mouse

[Unigene: 44289](#) Rat

Important Note:

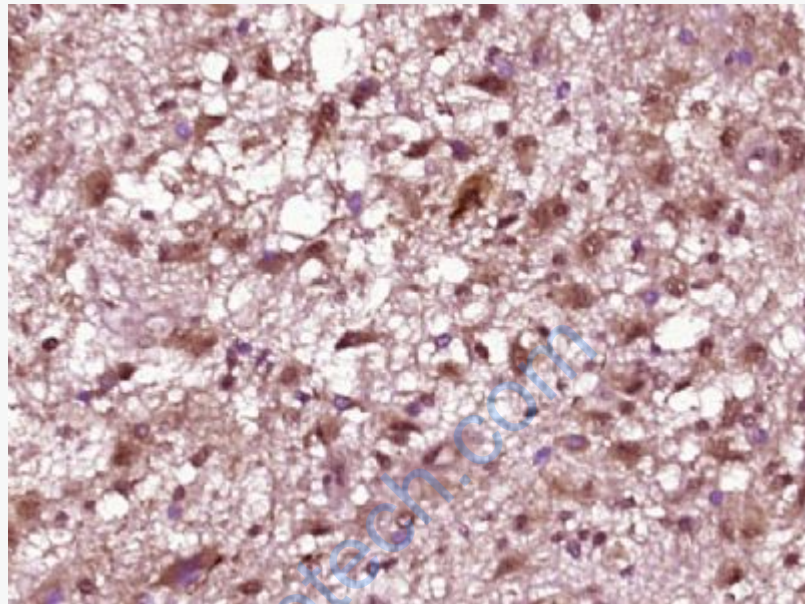
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Picture:

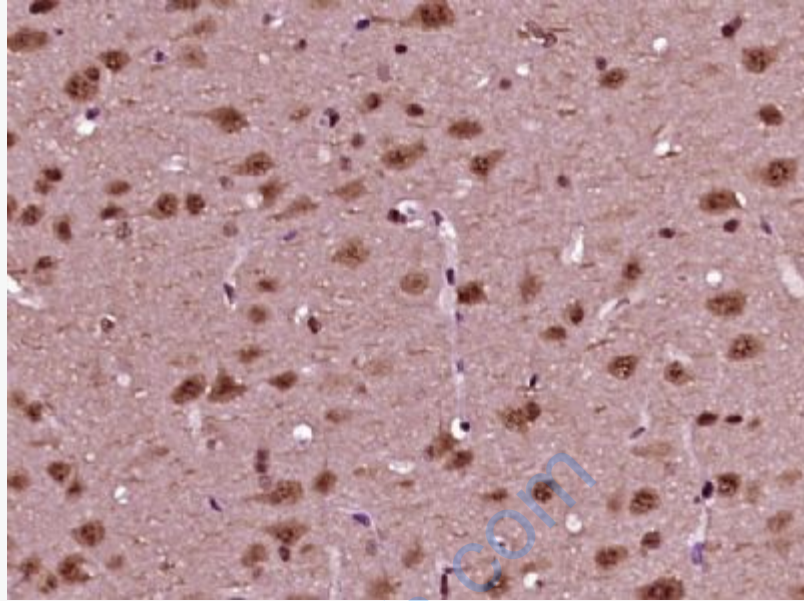


Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NeuroD1 (Ser274)) Polyclonal Antibody, Unconjugated (SL19218R) at 1:400 overnight at 4°C, followed by

operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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 (NeuroD1 (Ser274)) Polyclonal Antibody, Unconjugated (SL19218R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (NeuroD1 (Ser274)) Polyclonal Antibody, Unconjugated (SL19218R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.