SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Neurogranin antibody

Catalog Number: SL11435R

FOR RESEARCH USE ONLY

[DATASHEET]

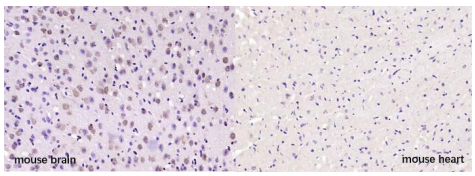
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Neurogranin
Immunogen:	KLH conjugated synthetic peptide derived from human NG/Neurogranin: 30-78/78
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Pig, Cow, Horse, Rabbit)
Predicted MW.:	7.6kDa
Subcellular Location:	cytoplasmic
Background:	Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and exons 3 and 4 contain untranslated sequences. It is suggested that the NRGN is a direct target for thyroid hormone in human brain, and that control of expression of this gene could underlay many of the consequences of hypothyroidism on mental states during development as well as in adult subjects. [provided by RefSeq, Jul 2008]. **Function:** Acts as a "third messenger" substrate of protein kinase C-mediated molecular cascades during synaptic development and remodeling. Binds to calmodulin in the absence of calcium.

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

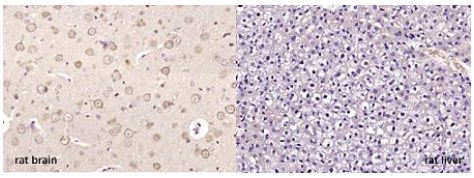
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	Tissue Specificity: In the cerebral cortex, found in the cell bodies of neurons in layers II-VI, and in apical and basal dendrites of pyramidal neurons. Is not found in the dendrites in patients with Alzheimer disease. **Post-translational modifications:** Phosphorylated at Ser-36 by PHK **Similarity:** Belongs to the neurogranin family. Contains 1 collagen-like domain. Contains 1 IQ domain. **Database links:** **Entrez Gene:** 616955 Cow **Entrez Gene:** 4900 Human **Entrez Gene:** 64011 Mouse **Entrez Gene:** 64356 Rat Omim: 602350 Human **SwissProt:** P35722 Cow **SwissProt:** Q92686 Human **SwissProt:** P60761 Mouse **SwissProt:** Q04940 Rat **Unigene:** 524116 Human **Unigene:** 335065 Mouse **Unigene:** 11236 Rat

[VALIDATION IMAGES]



Positive sample：Paraformaldehyde-fixed, paraffin embedded (mouse brain); Negative sample：Paraformaldehyde-fixed, paraffin embedded (mouse heart); 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 (Neurogranin) Polyclonal Antibody, Unconjugated (SL11435R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Positive sample：Paraformaldehyde-fixed, paraffin embedded (rat brian); Negative sample：Paraformaldehyde-fixed, paraffin embedded (rat liver); 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 (Neurogranin) Polyclonal Antibody, Unconjugated (SL11435R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

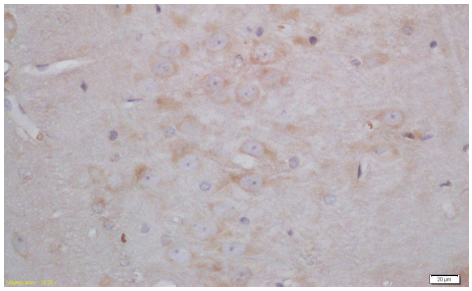
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Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Neurogranin Polyclonal Antibody, Unconjugated(SL11435R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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