

ARG65051 anti-Neurogranin precursor antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Neurogranin precursor
Tested Reactivity	Hu
Predict Reactivity	Ms, Cow, Dog
Tested Application	IHC-P, WB
Specificity	Reported variants represent identical protein: NP_006167.1, NP_001119653.1
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Neurogranin precursor
Species	Human
Immunogen	C-KIKSGERGRKG
Conjugation	Un-conjugated
Alternate Names	Neurogranin; 55-78; Ng; hng; RC3

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 4900 Human](#)

[Swiss-port # Q92686 Human](#)

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]

Research Area

Neuroscience antibody

Calculated Mw

8 kDa

PTM

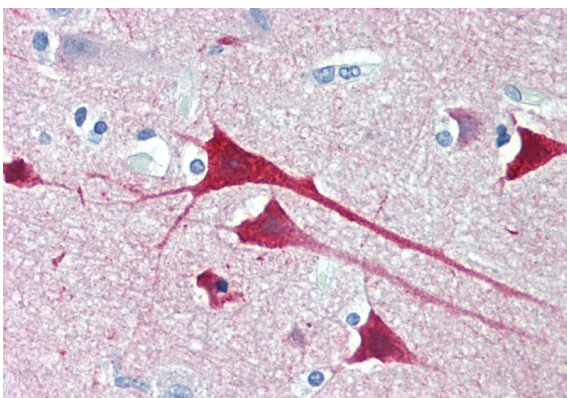
Phosphorylated at Ser-36 by PHK and PKC, phosphorylation prevents interaction with Calmodulin and interrupts several learning- and memory-associated functions.

Images



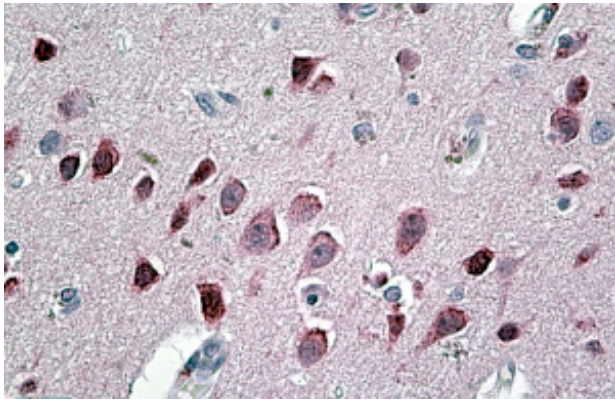
ARG65051 anti-Neurogranin precursor antibody WB image

Western Blot: Mouse Brain lysate (35 µg protein in RIPA buffer) stained with ARG65051 anti-Neurogranin antibody at 0.1 µg/ml dilution.



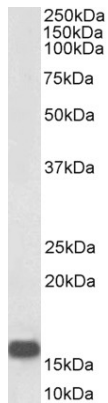
ARG65051 anti-Neurogranin precursor antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cortex tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG65051 anti-Neurogranin precursor antibody at 5 µg/ml dilution followed by AP-staining.



ARG65051 anti-Neurogranin precursor antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Cortex.
(Steamed antigen retrieval with citrate buffer pH 6) stained with
ARG65051 anti-Neurogranin antibody at 3.8 µg/ml dilution followed
by AP-staining.



ARG65051 anti-Neurogranin precursor antibody WB image

Western blot: 35 µg of Human brain (frontal cortex) lysate (in RIPA
buffer) stained with ARG65051 anti-Neurogranin precursor antibody
at 0.1 µg/ml dilution and incubated at RT for 1 hour.