

Neurogranin (NRGN) Rabbit mAb

Catalog No.: A22700 **Recombinant**

Basic Information

Observed MW

15kDa

Calculated MW

8kDa

Category

Primary antibody

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Mouse, Rat

CloneNo number

ARC57532

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.

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4900

Swiss Prot

Q92686

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

RC3; hng; Neurogranin (NRGN)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

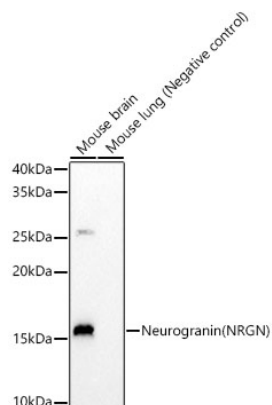
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using Neurogranin (NRGN) Rabbit mAb (A22700) at 1 : 1000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

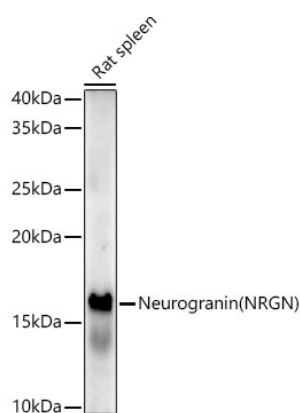
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Negative control (NC): Mouse lung.

Exposure time: 180 s.



Western blot analysis of lysates from Rat spleen using Neurogranin (NRGN) Rabbit mAb (A22700) at 1 : 1000 dilution.

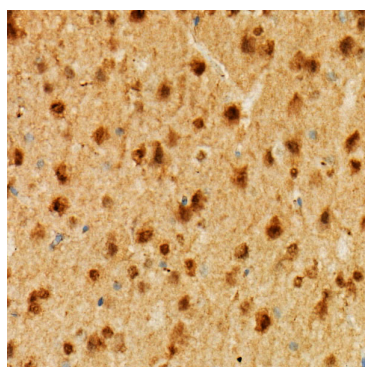
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 60 s.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using Neurogranin (NRGN) Rabbit mAb (A22700) at dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.