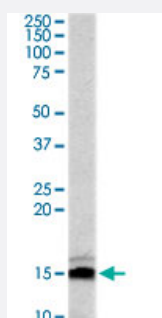


NRGN polyclonal antibody

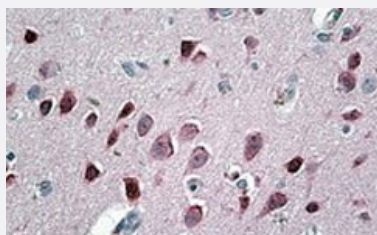
Catalog # PAB17274 Size 100 ug

Applications



Western Blot (Tissue lysate)

NRGN polyclonal antibody (Cat # PAB17274) (0.1 ug/mL) staining of mouse brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

NRGN polyclonal antibody (Cat # PAB17274) (3.8 ug/mL) staining of paraffin embedded human cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of NRGN.
Immunogen	A synthetic peptide corresponding to internal region of human NRGN.
Sequence	C-KIKSGERGRKG
Host	Goat
Theoretical MW (kDa)	7.6
Reactivity	Human, Mouse, Rat
Specificity	Reported variants represent identical protein: NP_006167.1, NP_001119653.1.

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:8000) Western Blot (0.1-0.3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (4-6 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

NRGN polyclonal antibody (Cat # PAB17274) (0.1 ug/mL) staining of mouse brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — NRGN

Entrez GeneID	4900
Protein Accession#	NP_006167.1
Gene Name	NRGN
Gene Alias	RC3, hng
Gene Description	neurogranin (protein kinase C substrate, RC3)
Omim ID	602350

Gene Ontology

[Hyperlink](#)

Gene Summary

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]

Other Designations

calmodulin-binding protein|neurogranin|protein kinase C substrate

Publication Reference

- [Association of the gene encoding neurogranin with schizophrenia in males.](#)

Ruano D, Aulchenko YS, Macedo A, Soares MJ, Valente J, Azevedo MH, Hutz MH, Gama CS, Lobato MI, Belmonte-de-Abreu P, Goodman AB, Pato C, Heutink P, Palha JA.

Journal of Psychiatric Research 2006 Nov; 42(2):125.

Disease

- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)