

Product datasheet for **AP23700PU-N**

Neurogranin (NRGN) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Peptide ELISA: 1/8000 (Detection Limit). Western blot: Approx 16kDa band observed in Human Brain (Frontal Cortex) lysate (calculated MW of 7.6kDa according to NP_006167.1). The observed molecular weights correspond to earlier findings in literature with different antibodies (Li et al, J Biol Chem. 1999 Jan 15;274(3):1294-300; PMID: 9880498). Preliminary testing was unsuccessful on Mouse Brain for this particular batch. Recommended concentration: 0.1-0.3 µg/ml. Immunohistochemistry on Paraffin Sections: In paraffin embedded Human Brain (Cortex) shows cytoplasm staining in the neuronal cell bodies. Recommended concentration: 5 µg/ml.
Reactivity:	Bovine, Canine, Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_006167.1.
Specificity:	This antibody recognizes Neurogranin. Reported variants represent identical protein: NP_006167.1, NP_001119653.1
Formulation:	Tris saline, pH~7.3 State: Aff - Purified State: Liquid purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



[View online »](#)

Stability: Shelf life: one year from despatch.

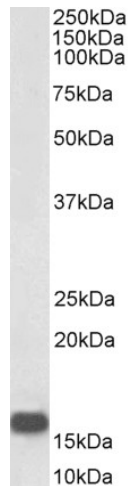
Gene Name: neurogranin

Database Link: [Entrez Gene 4900 Human Q92686](#)

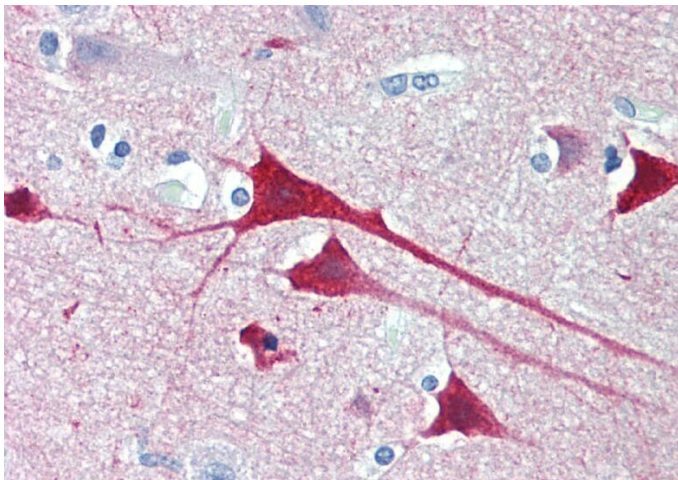
Background: Neurogranin (NRGN) is the human homolog of the neuron-specific rat RC3/neurogranin gene. This gene encodes a postsynaptic protein kinase substrate that binds calmodulin in the absence of calcium. The NRGN gene contains four exons and three introns. The exons 1 and 2 encode the protein and 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.

Synonyms: Ng,Nrgn

Product images:



AP23700PU-N (0.1ug/ml) staining of Human Brain (Frontal Cortex) lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AP23700PU-N (5ug/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.