

Rabbit Neurogranin Polyclonal Antibody | anti-NRGN antibody

Neurogranin Antibody

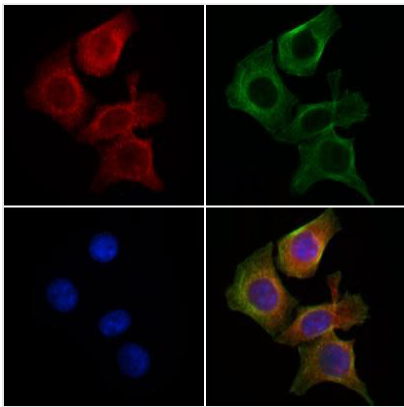
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329133	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA

PRODUCT SYNONYMS

Neurogranin; Polyclonal Antibody; Neurogranin Antibody; Protein kinase C substrate RC3; Calmodulin binding protein; Hng; NEUG(55-78); NEUG_HUMAN; Neurogranin (protein kinase C substrate); Ng; NRGN; Protein kinase C substrate; RC3; anti-NRGN antibody

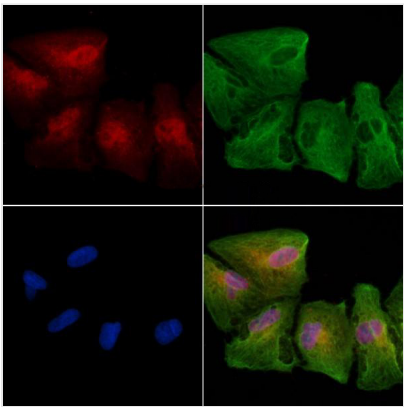
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Neurogranin Antibody detects endogenous levels of total Neurogranin.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	78
Applicable Applications for anti-NRGN antibody	ELISA
Immunogen	A synthesized peptide derived from human Neurogranin, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA329133 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329133 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



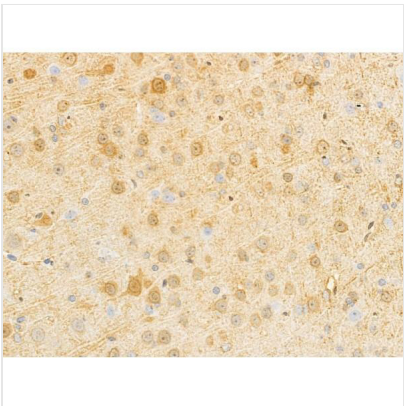
IF (Immunofluorescence)

AAA329133 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329133) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



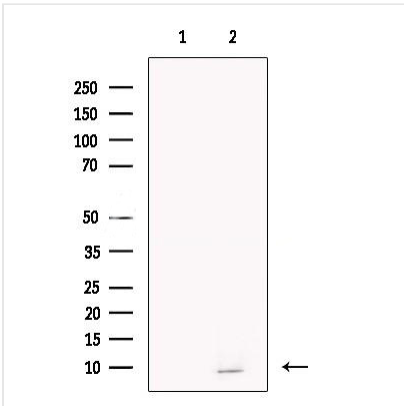
IHC (Immunohistochemistry)

AAA329133 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA329133 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Rat brain, using Neurogranin Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NRGN antibody	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 (By similarity).
	Post Translational Modifications: Phosphorylated at Ser-36 by PHK and PKC, phosphorylation prevents interaction with Calmodulin and interrupts several learning- and memory-associated functions.
	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.
	Similarity: Neurogranin is intrinsically unstructured; however, upon binding with CaM, The IQ domain adopts a helical conformation.Belongs to the neurogranin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	187131239
NCBI GeneID	4900
NCBI Accession #	NP_001119653.1
NCBI GenBank Nucleotide #	NP_001119653.1
UniProt Accession #	Q92686
Molecular Weight	Observed Molecular Weight: (Observed)7kD. Predicted Molecular Weight: (Calculated)8kDa.
NCBI Official Full Name	neurogranin
NCBI Official Synonym Full Names	neurogranin
NCBI Official Symbol	NRGN
NCBI Official Synonym Symbols	RC3; hng
NCBI Protein Information	neurogranin
UniProt Protein Name	Neurogranin
UniProt Gene Name	NRGN
UniProt Synonym Gene Names	Ng

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/neurogranin-antibody-elisa/329133>