

## NEUG rabbit pAb

<b>Catalog No :</b>	YT7196
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF
<b>Target :</b>	NEUG
<b>Gene Name :</b>	NRGN
<b>Protein Name :</b>	NEUG
<b>Human Gene Id :</b>	4900
<b>Human Swiss Prot No :</b>	Q92686
<b>Mouse Gene Id :</b>	64011
<b>Mouse Swiss Prot No :</b>	P60761
<b>Rat Gene Id :</b>	64356
<b>Rat Swiss Prot No :</b>	Q04940
<b>Immunogen :</b>	Synthesized peptide derived from human NEUG AA range: 23-73
<b>Specificity :</b>	This antibody detects endogenous levels of NEUG at Human/Mouse/Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:50-200. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Molecularweight :** 9kD

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**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],

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**Function :** 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.,similarity:Belongs to the neurogranin family.,similarity:Contains 1 collagen-like domain.,similarity:Contains 1 IQ domain.,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.,

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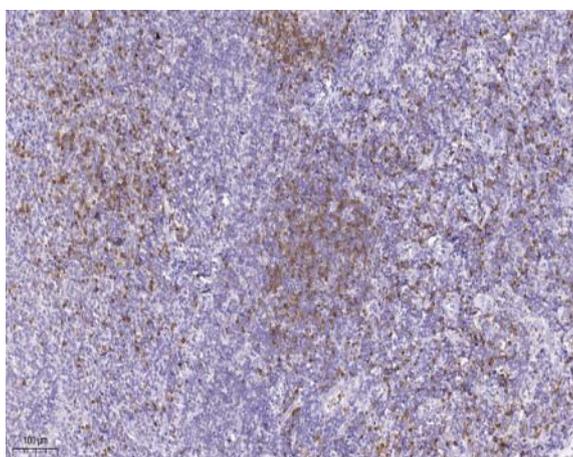
**Subcellular Location :** nucleus,trans-rk transport vesicle membrane,postsynaptic density,axon,mitochondrial membrane,neuronal cell body,dendritic spine head,

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**Expression :** 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.

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## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight).3,Secondary antibody was diluted at 1:200(room temperature, 45min).