

Product datasheet for **AM10122SU-N**

NeuN (RBFOX3) Mouse Monoclonal Antibody [Clone ID: A60]

Product data:

Product Type:	Primary Antibodies
Clone Name:	A60
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/50-1/100 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Brain tissue.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified cell nuclei from Mouse brain.
Specificity:	NeuN antibody specifically recognizes the DNA-binding, neuron-specific protein NeuN, which is present in most CNS and PNS neuronal cell types of all vertebrates tested. Cellular Localization: Nuclear.
Formulation:	Purified antibody diluted in Tris HCl buffer containing stabilizing protein and <0.1% sodium azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	RNA binding protein, fox-1 homolog 3
Database Link:	Entrez Gene 146713 Human A6NFN3



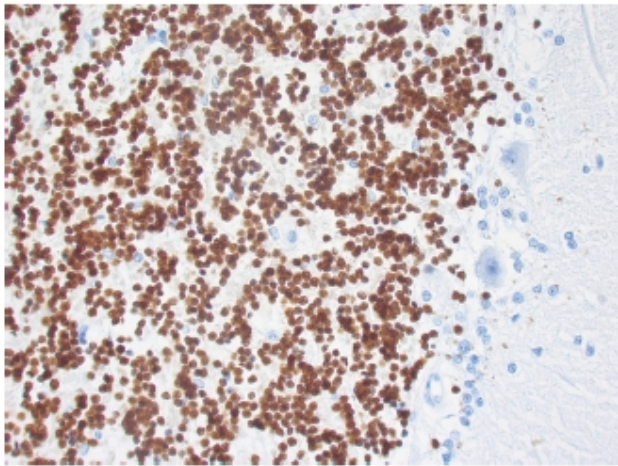
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Background:

NeuN protein distributions are apparently restricted to neuronal nuclei, perikarya and some proximal neuronal processes in both fetal and adult brain although, some neurons fail to be recognized by NeuN at all ages: INL retinal cells, Cajal-Retzius cells, Purkinje cells, inferior olivary and dentate nucleus neurons, and sympathetic ganglion cells are examples. Immunohistochemically detectable NeuN protein first appears at developmental timepoints that correspond with the withdrawal of the neuron from the cell cycle and/or with the initiation of terminal differentiation of the neuro. Immunoreactivity appears around E9.5 in the mouse neural tube and is extensive throughout the developing nervous system by E12.5. Strong nuclear staining suggests a nuclear regulatory protein function; however, no evidence currently exists as to whether the NeuN protein antigen has a function in the distal cytoplasm or whether it is merely synthesized there before being transported back into the nucleus. No difference between protein isolated from purified nuclei and whole brain extract on immunoblots has been found.

Synonyms:

Fox-1 homolog C, FOX3

Product images:

Formalin-Fixed, Paraffin-Embedded Human cerebellum stained with NeuN antibody Cat.-No. AM10122SU-N using peroxidase conjugate and DAB chromogen. Note nuclear staining of granular neuronal cells.