

## Recombinant Neuronal-Nuclei (NeuN) (Neuronal Marker) Antibody

Mouse Monoclonal Antibody [Clone rNEUN/8055]

Catalog No	Format	Size
146713-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
146713-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
146713-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

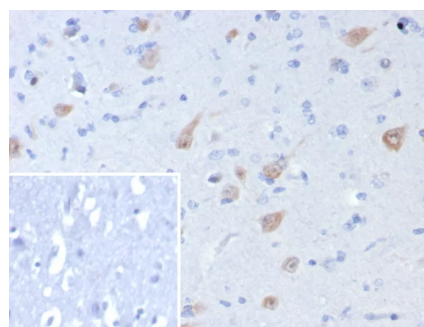
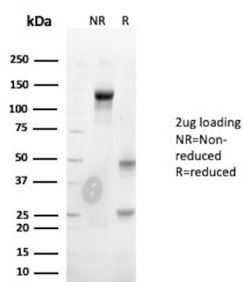
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	rNEUN/8055
<b>Gene Name</b>	RBFOX3
<b>Immunogen</b>	Recombinant fragment (around aa1-200) of human RBFOX3 (NeuN) protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	48kDa
<b>Cellular Localization</b>	Nucleus. Cytoplasm.
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human brain. HeLa cells.

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant Neuronal-Nuclei (NeuN) (Neuronal Marker) Antibody



SDS-PAGE Analysis of Purified RNA binding protein fox-1 homolog 3 Recombinant Mouse Monoclonal Antibody (rNEUN/8055). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human brain stained with NeuN Recombinant Mouse Monoclonal Antibody (rNEUN/8055). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

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. NeuN protein distributions are apparently restricted to neuronal nuclei 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.

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### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### Research Areas

Neuroscience, Transcription Factors

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