Catalog # 146713-RBM11
Product Datasheet

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

Rabbit Monoclonal Antibody [Clone NEUN/8096R]

Catalog No	Format	Size
146713-RBM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
146713-RBM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
146713-RBM11-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

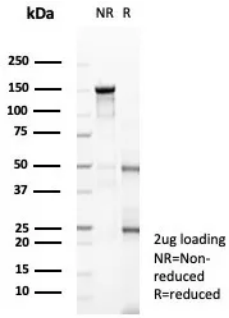
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

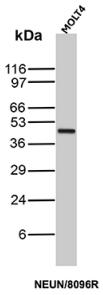
Clone	NEUN/8096R
Immunogen	Recombinant fragment (around aa38-51) of the human NeuN protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	33.87kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Human brain tissue. MOLT4

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

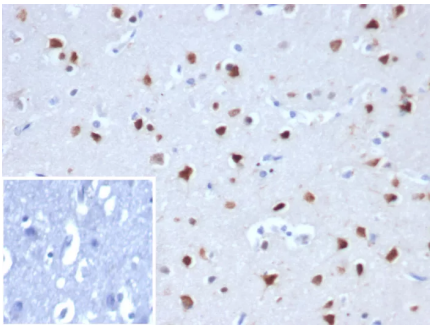
Product Images for Recombinant Neuronal-Nuclei (NeuN) (Neuronal Marker) Antibody



SDS-PAGE Analysis of Purified NeuN Recombinant Rabbit Monoclonal Antibody (NEUN/8096R). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of MOLT4 cell lysate using NeuN Recombinant Rabbit Monoclonal Antibody (NEUN/8096R).



Formalin-fixed, paraffin-embedded human cerebellum stained with NeuNRecombinant Rabbit Monoclonal Antibody (NEUN/8096R). 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.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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.

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.