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#94403**NeuN (E4M5P) Mouse mAb**

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Applications: W, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46-55	Source/Isotype: Mouse IgG2a kappa	UniProt ID: #A6NFN3	Entrez-Gene Id: 146713
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen)	Dilution 1:1000 1:50 1:400 - 1:600
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i> For a carrier free (BSA and azide free) version of this product see product #93972.	
Specificity/Sensitivity	NeuN (E4M5P) Mouse mAb recognizes endogenous levels of total NeuN protein. This antibody also recognizes a non-specific band of unknown origin at 140 kDa. Species cross-reactivity for immunofluorescence is mouse only.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human NeuN protein.	
Background	Neuronal nuclei (NeuN, Fox-3, RBFOX3) is a nuclear protein expressed in most post-mitotic neurons of the central and peripheral nervous systems. NeuN is not detected in Purkinje cells, sympathetic ganglion cells, Cajal-Retzius cells, INL retinal cells, inferior olivary, or dentate nucleus neurons (1). This neuronal protein was originally identified by immunoreactivity with a monoclonal antibody also called NeuN. Using MS analysis, NeuN was later identified as the <i>Fox-3</i> gene product. Fox-3 contains an RNA recognition motif and functions as a splicing regulator (2). Fox-3 regulates alternative splicing of NumB, promoting neuronal differentiation during development (3).	
Background References	<ol style="list-style-type: none"> 1. Mullen, R.J. et al. (1992) <i>Development</i> 116, 201-11. 2. Kim, K.K. et al. (2009) <i>J Biol Chem</i> 284, 31052-61. 3. Kim, K.K. et al. (2013) <i>J Cell Biol</i> 200, 443-58. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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