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## NeuN (D4G4O) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 594 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> IF-F	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #A6NFN3	<b>Entrez-Gene Id:</b> 146713
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<b>Product Usage Information</b>	<b>Application</b> Immunofluorescence (Frozen)	<b>Dilution</b> 1:100
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>	
<b>Specificity/Sensitivity</b>	NeuN (D4G4O) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 594 Conjugate) recognizes endogenous levels of total NeuN protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human NeuN protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 594 fluorescent dye and tested in-house for direct immunofluorescent analysis in mouse tissue. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated NeuN (D4G4O) XP <sup>®</sup> Rabbit mAb #24307.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Mullen, R.J. et al. (1992) <i>Development</i> 116, 201-11.</li> <li>Kim, K.K. et al. (2009) <i>J Biol Chem</i> 284, 31052-61.</li> <li>Kim, K.K. et al. (2013) <i>J Cell Biol</i> 200, 443-58.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IF-F:</b> Immunofluorescence (Frozen)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey
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