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#51802**NeuN (D4G4O) XP[®] Rabbit mAb
(Biotinylated)**
Orders: 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	46-55	Rabbit IgG	#A6NFN3	146713

Product Usage Information	Application	Dilution
Storage	Western Blotting	1:1000
Specificity/Sensitivity	Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>	
Source / Purification	NeuN (D4G4O) XP [®] Rabbit mAb (Biotinylated) recognizes endogenous levels of total NeuN protein.	
Description	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human NeuN protein.	
Background	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated NeuN (D4G4O) XP [®] Rabbit mAb #24307.	
Background References	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).	
	<ol style="list-style-type: none"> Mullen, R.J. et al. (1992) <i>Development</i> 116, 201-11. Kim, K.K. et al. (2009) <i>J Biol Chem</i> 284, 31052-61. 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
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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