

Store at  
-20C  
#12943**NeuN (D3S3I) Rabbit mAb**
**Orders:** 877-616-CELL (2355)  
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<b>Applications:</b> W, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 46-55	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #A6NFN3	<b>Entrez-Gene Id:</b> 146713
<b>Product Usage Information</b>		<b>Application</b> Western Blotting Immunofluorescence (Frozen)		<b>Dilution</b> 1:1000 1:250 - 1:1000		
<b>Storage</b>		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. Do not aliquot the antibody.				
<b>Specificity/Sensitivity</b>		NeuN (D3S3I) Rabbit mAb recognizes endogenous levels of total NeuN protein. A 30 kDa protein of unknown origin may be detected.				
<b>Source / Purification</b>		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NeuN protein.				
<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>		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 **IF-F:** Immunofluorescence (Frozen)**Cross-Reactivity Key****H:** Human **M:** Mouse **R:** Rat**Trademarks and Patents**

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