

**NeuN (D3S3I) Rabbit mAb**

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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
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**Product Usage Information****Application**

Western Blotting  
Immunofluorescence (Frozen)

**Dilution**

1:1000  
1:250 - 1:1000

**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. Do not aliquot the antibody.

**Specificity/Sensitivity**

NeuN (D3S3I) Rabbit mAb recognizes endogenous levels of total NeuN protein. A 30 kDa protein of unknown origin may be detected.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy 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 *Fox-3* 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**

1. Mullen, R.J. et al. (1992) *Development* 116, 201-11.
2. Kim, K.K. et al. (2009) *J Biol Chem* 284, 31052-61.
3. Kim, K.K. et al. (2013) *J Cell Biol* 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

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