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## NeuN (D4G4O) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-F	H M R Mk	Endogenous	Rabbit IgG	#A6NFN3	146713

### Product Usage Information

#### Application

Immunofluorescence (Frozen)

#### Dilution

1:50 - 1:100

### Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

### Specificity/Sensitivity

NeuN (D4G4O) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate) recognizes endogenous levels of total NeuN protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human NeuN protein.

### Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor<sup>®</sup> 488 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.

### 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).

### Applications Key

**IF-F:** Immunofluorescence (Frozen)

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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