

Store at  
-20C  
#24307**NeuN (D4G4O) XP<sup>®</sup> Rabbit mAb**

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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, W-S, IHC-P, IF-F	H M R Mk	Endogenous	46-55	Rabbit IgG	#A6NFN3	146713

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

Western Blotting  
Simple Western™  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Frozen)

**Dilution**

1:1000  
1:10 - 1:50  
1:200 - 1:800  
1:50 - 1:100

**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.*

For a carrier free (BSA and azide free) version of this product see product #36662.

**Specificity/Sensitivity**

NeuN (D4G4O) XP<sup>®</sup> Rabbit mAb 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.

**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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **W-S:** Simple Western™ **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen)

**Cross-Reactivity Key**

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

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