

Datasheet: MCA6344

BATCH NUMBER 157607

Description:	RABBIT ANTI NeuN
Specificity:	NeuN
Other names:	RNA binding protein fox-1 homolog 3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM312
Isotype:	IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/500 - 1/1000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A peptide corresponding to the N-terminus of human NeuN

**External Database
Links**

UniProt:

[A6NFN3](#) [Related reagents](#)

Entrez Gene:

[146713](#) RBFOX3 [Related reagents](#)

Specificity

Rabbit anti NeuN antibody recognizes RNA binding protein fox-1 homolog 3 (RBFOX3), also known as fox-1 homolog C.

NeuN is a neuronal nuclear RNA-binding protein, localized in the nuclei and perinuclear cytoplasm of most neurons in the mammalian central nervous system ([Gusel'nikova and Korzhevskiy, 2015](#)). NeuN is a regulator of neuronal splicing and is involved with neurogenesis and synaptogenesis. It regulates differentiation of neurons by alternative splicing of Numb. Dysfunctions in NeuN have been identified associated with neurodevelopmental disorders including epilepsy, speech disorders and autism ([Lin et al. 2018](#)). Accordingly, a role for NeuN has been suggested in human neurological function, and proteins regulated by NeuN have been suggested as therapeutic targets for treatment of NeuN-linked neurological disorders ([Wang et al. 2015](#)).

References

1. Sun, T. *et al.* (2021) Focused ultrasound with anti-pGlu3 A β enhances efficacy in Alzheimer's disease-like mice via recruitment of peripheral immune cells. [J Control Release. 336: 443-56.](#)
2. Song, B. & Kim, C.H. (2022) Cell-autonomous PLC β 1 modulation of neural stem/progenitor cell proliferation during adult hippocampal neurogenesis. [Neurosci Lett. 791: 136899.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6344>
10048

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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