abcam

Product datasheet

Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488) ab190195

Recombinant RabMAb®

★★★★☆ 2 Abreviews   8 References   4 Images

Overview

Product name	Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488)
Description	Rabbit monoclonal [EPR12763] to NeuN - Neuronal Marker (Alexa Fluor® 488)
Host species	Rabbit
Conjugation	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
Tested applications	**Suitable for:** ICC/IF, Flow Cyt, IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Sheep, Goat, Cat, Dog, Zebrafish, Common marmoset ⚠
Immunogen	Synthetic peptide within Human NeuN aa 1-100 (Cysteine residue). The exact sequence is proprietary.
	Database link: A6NFN3
Positive control	ICC/IF: NGF-differentiated PC12 cells and U-87 MG cells. IHC-Fr: Rat Brain (Normal). Flow Cyt: U-87 MG cells.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

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This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol, 1% BSA
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	EPR12763
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab190195** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/250.
Flow Cyt	★★★★☆	1/500. ab199091 - Rabbit monoclonal IgG (Alexa Fluor® 488), is suitable for use as an isotype control with this antibody.
IHC-Fr		1/50. Before commencing with immunostaining protocol, perform heat mediated antigen retrieval using sodium citrate buffer, pH6.

Target

|	
Function	RNA-binding protein that regulates alternative splicing events.
Sequence similarities	Contains 1 RRM (RNA recognition motif) domain.
Cellular localization	Nucleus. Cytoplasm.

Images
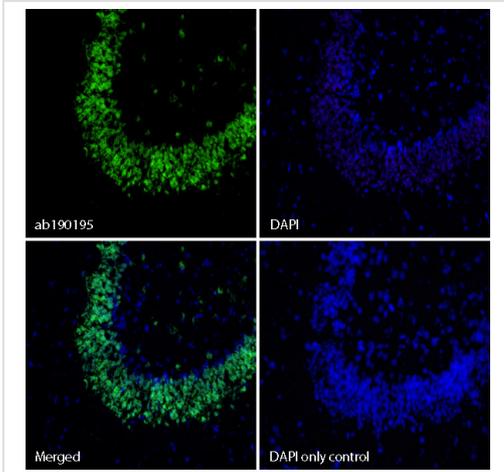
Immunohistochemistry (Frozen sections) - Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488) (ab190195)

IHC image of ab190195 staining in acetone fixed frozen tissue section of normal rat brain.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) in a Dako Pascal pressure cooker using the standard factory-set regime. Non-specific protein-protein interactions were then blocked using in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 3% (w/v) BSA for 1h at room temperature. The section was then incubated with ab190195 (1/50) in TBS containing 0.025% (v/v) Triton X-100 and 3% (w/v) BSA overnight at +4°C. The section was then counterstained and mounted with SlowFade® Gold Antifade Mountant with DAPI.

The DAPI only control (no antibody) inset shows no autofluorescence, demonstrating that any Alexa Fluor® 488 signal is dervied directly from bound ab190195. The separate images of ab190195 and DAPI alone, combined with the merged version of both signals, shows predominant co-localisation of the Alexa Fluor® 488 signal in the nuclei of the hippocampal granular layer.

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.
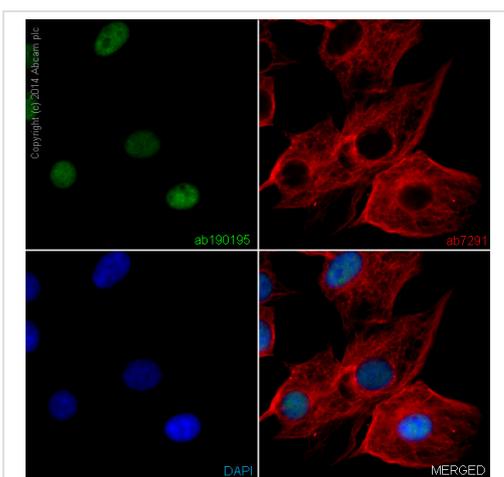
Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488) (ab190195)

ab190195 staining NeuN in U87-MG cells. The cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab190195 at 1/50 dilution (shown in green) and ab7291 (Mouse monoclonal [DM1A] to alpha Tubulin) at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an Alexa Fluor® 594 Goat anti-Mouse secondary (ab150120) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI.
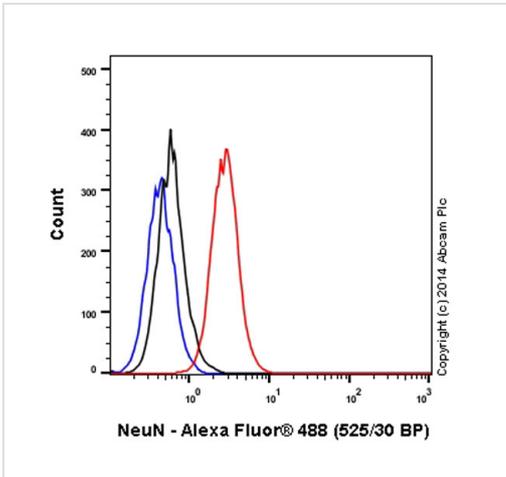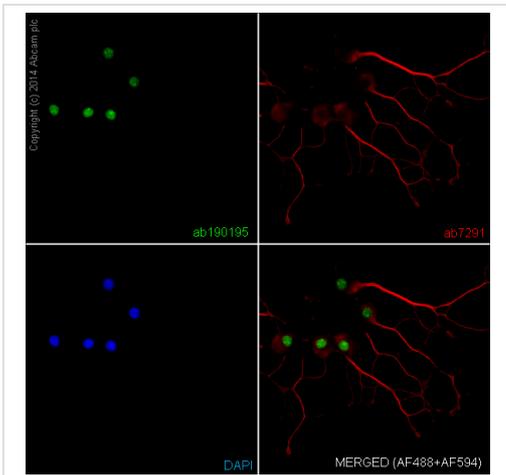
Flow Cytometry - Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488) (ab190195)

Overlay histogram showing U-87MG cells stained with ab190195 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab190195, 1/500 dilution) for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) Alexa Fluor® 488 used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This antibody gave a positive signal in U-87MG fixed with 4% formaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] - Neuronal Marker (Alexa Fluor® 488) (ab190195)

ab190195 staining NeuN in NGF-differentiated PC12 cells (7 days). The cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab190195 at 1/50 dilution (shown in green) and ab7291 (Mouse monoclonal [DM1A] to alpha Tubulin) at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an Alexa Fluor® 594 Goat anti-Mouse secondary (ab150120) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI.

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