abcam

Product datasheet

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

Recombinant RabMAb

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Overview

Product name	Alexa Fluor® 488 Anti-NeuN antibody [EPR12763] - Neuronal Marker
Description	Alexa Fluor® 488 Rabbit monoclonal [EPR12763] to NeuN - Neuronal Marker
Host species	Rabbit
Conjugation	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
Tested applications	**Suitable for:** ICC/IF, IHC-Fr, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Mouse, Sheep, Goat, Cat, Dog, Zebrafish, Common marmoset
Immunogen	Synthetic peptide within Human NeuN aa 1-100 (Cysteine residue). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **A6NFN3** Run BLAST with Run BLAST with
Positive control	ICC/IF: NGF-differentiated PC12 cells and U-87 MG cells. IHC-Fr: Rat Brain (Normal). Flow Cyt (intra): U-87 MG cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any

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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. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12763
Isotype	IgG

Applications

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

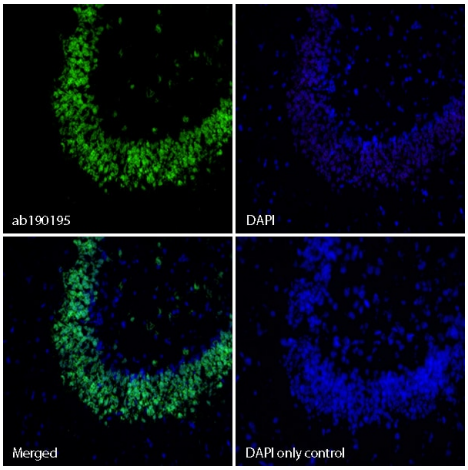
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Target

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

Images



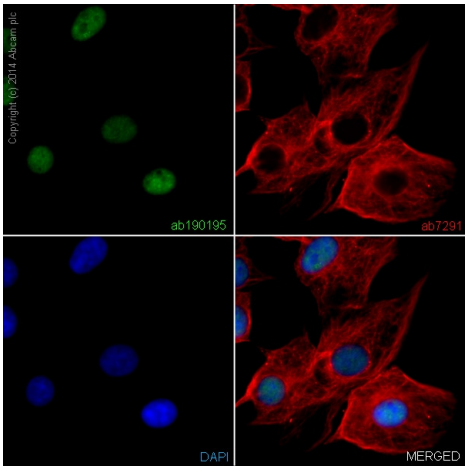
Immunohistochemistry (Frozen sections) - Alexa Fluor® 488 Anti-NeuN antibody [EPR12763] - Neuronal Marker (ab190195)

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

Non-specific protein-protein interactions were blocked using 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.

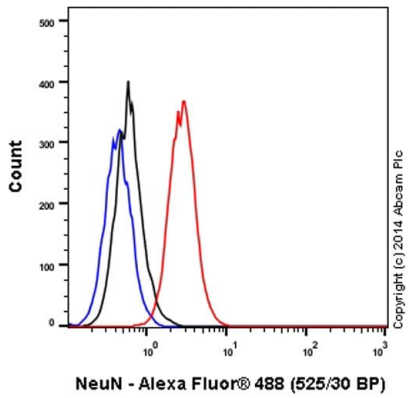
The DAPI only control (no antibody) inset shows no autofluorescence, demonstrating that any Alexa Fluor® 488 signal is dervied directly from bound ab190195. The separate images of ab190195 and DAPI alone, combined with the merged version of both signals, shows predominant co-localisation of the Alexa 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 - Alexa Fluor® 488 Anti-NeuN antibody [EPR12763] - Neuronal Marker (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.

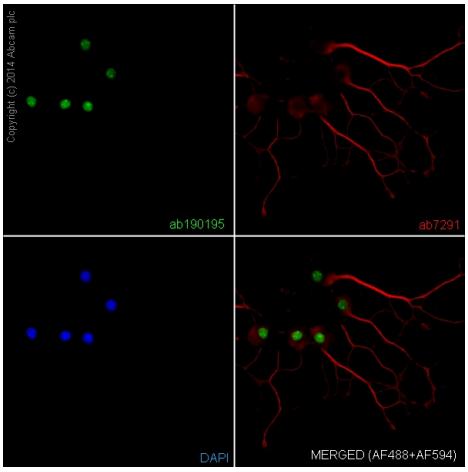


Flow Cytometry (Intracellular) - Alexa Fluor® 488 Anti-NeuN antibody [EPR12763] - Neuronal Marker (ab190195)

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