abcam

Product datasheet

Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) ab279295

Recombinant

6 Images

Overview

Product name	Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric)
Description	Mouse monoclonal [EPR12763] to NeuN - Mouse IgG1
Host species	Mouse
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P, Flow Cyt (Intra), IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human, mouse and rat brain tissue lysate. Flow Cyt (intra): Rat primary neural/glia cells. IP: Mouse brain tissue lysate. ICC/IF: SHSY5Y cells IHC: FFPE Human Cerebral Cortex tissue sections
General notes	This mouse monoclonal chimeric antibody has been engineered from a RabMAb parent antibody (**ab177487**). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive secondary antibodies are recommended.

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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12763
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab279295 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		Use a concentration of 1 µg/ml.
WB		1/1000.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/1000.
IP		1/30.

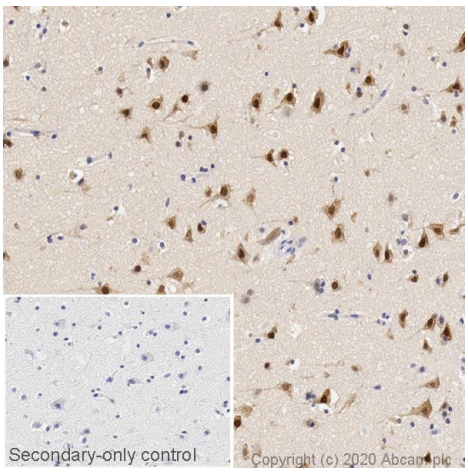
Target

Function RNA-binding protein that regulates alternative splicing events.

Sequence similarities Contains 1 RRM (RNA recognition motif) domain.

Cellular localization Nucleus. Cytoplasm.

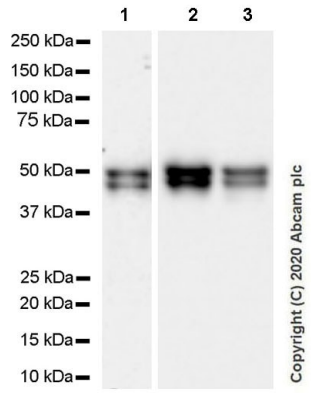
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

IHC image of NeuN staining in a section of formalin-fixed paraffin-embedded normal human cerebral cortex performed on a Leica BONDTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab279295, 1ug/ml, for 15 mins at room temperature. A rabbit anti-mouse IgG1, **ab125913**, was added for 8 mins at room temperature and detected using an HRP conjugated goat anti-rabbit compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

All lanes : Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295) at 1/1000 dilution

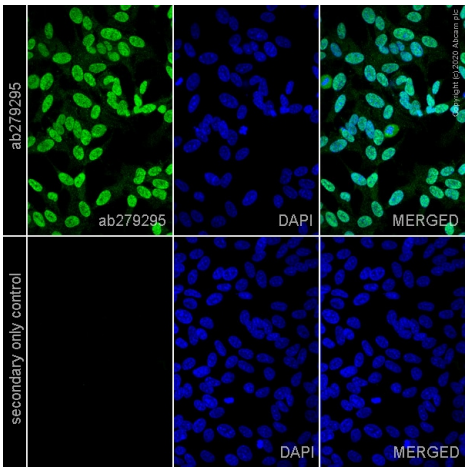
Lane 1 : Human brain tissue lysate
Lane 2 : Mouse brain tissue lysate
Lane 3 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/5000 dilution

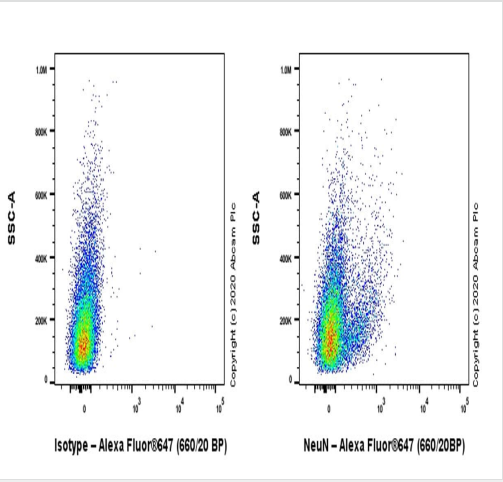
Exposure times: Lane 1: 3 minutes; Lane 2, 3: 11.5 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

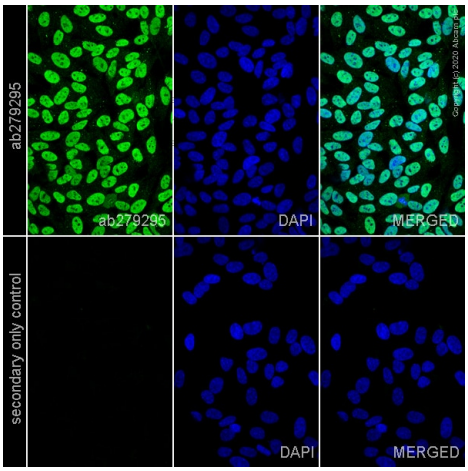
Immunofluorescence staining of NeuN using ab279295 in human SHSY5Y cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab279295 at 1.0 µg/ml. Cells were then incubated with **ab150117**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and nuclear DNA was labelled with DAPI (shown in blue). The secondary only control (bottom row) was not incubated with ab279295 but otherwise processed the same. Images were acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Flow Cytometry (Intracellular) - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

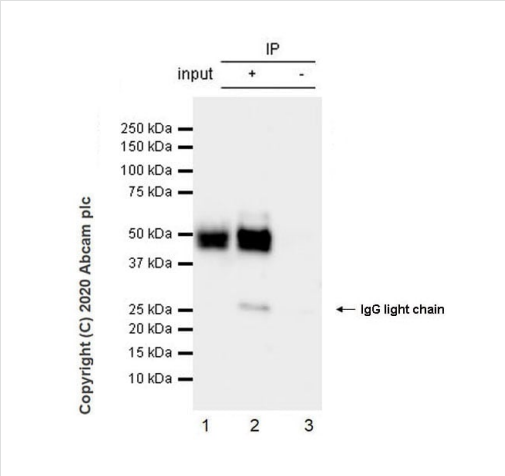
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized rat primary neural/glia cells labelling NeuN with ab279295 at 1/1000 dilution (0.1µg)/ Right compared with a Mouse monoclonal IgG isotype control/ Left.

Goat Anti-Mouse IgG (Alexa Fluor® 647, **ab150119**) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

Immunofluorescence staining of NeuN using ab279295 in human SHSY5Y cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab279295 at 1.0 µg/ml. Cells were then incubated with **ab150117**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and nuclear DNA was labelled with DAPI (shown in blue). The secondary only control (bottom row) was not incubated with ab279295 but otherwise processed the same. Images were acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunoprecipitation - Anti-NeuN antibody [EPR12763] - Mouse IgG1 (Chimeric) (ab279295)

NeuN was immunoprecipitated from 0.35 mg mouse brain tissue lysate 10 µg with ab279295 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab279295 at 1/1000 dilution. mouse IgG for IP (HRP) (**ab131368**) was used at 1/5000 dilution.

Lane 1: Mouse brain tissue lysate 10µg.

Lane 2: ab279295 IP in mouse brain tissue lysate.

Lane 3: Mouse monoclonal IgG1 (**ab18443**) instead of ab279295 in mouse brain tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 15 seconds.

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