abcam

Product datasheet

Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) ab279297

Recombinant

3 References 5 Images

Overview

Product name	Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric)
Description	Rat monoclonal [EPR12763] to NeuN - Rat IgG2a
Host species	Rat
Tested applications	**Suitable for:** WB, ICC/IF, Flow Cyt (Intra), IHC-P
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. IHC: Human cerebral cortex. ICC/IF: SHSY5Y cells.
General notes	This rat 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	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab279297 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
WB		1/1000.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt (Intra)		1/1000.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

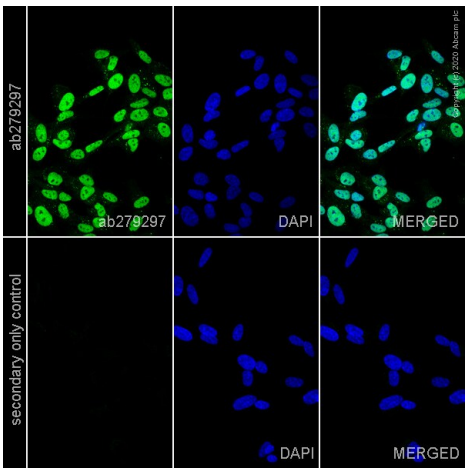
Target

Function RNA-binding protein that regulates alternative splicing events.

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

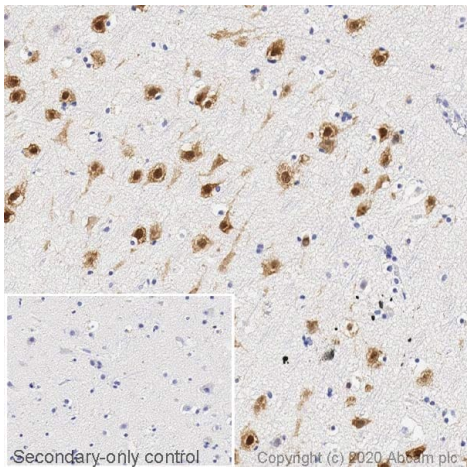
Cellular localization Nucleus. Cytoplasm.

Images



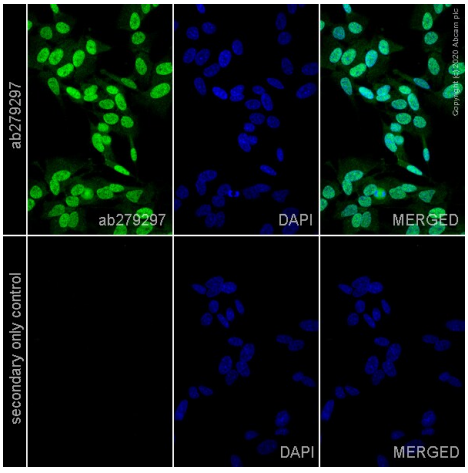
Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297)

Immunofluorescence staining of NeuN using ab279297 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 ab279297 at 1.0 µg/ml. Cells were then incubated with **ab150165**, Goat Anti-Rat 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 ab279297 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.



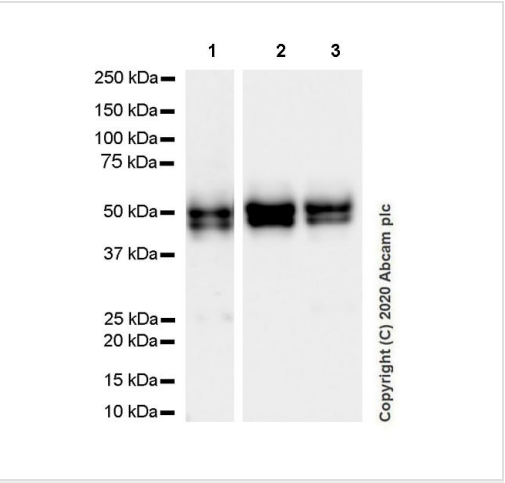
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297)

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 ab279297, 1ug/ml, for 15 mins at room temperature. A rabbit anti-rat IgG2a, **ab102248**, 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.



Immunocytochemistry/ Immunofluorescence - Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297)

Immunofluorescence staining of NeuN using ab279297 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 ab279297 at 1.0 µg/ml. Cells were then incubated with **ab150165**, Goat Anti-Rat 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 ab279297 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.



Western blot - Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297)

All lanes : Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297) at 1/1000 dilution

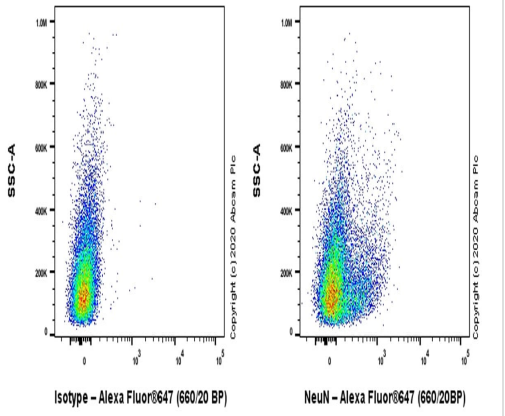
Lane 1 : Human brain tissue lysate
Lane 2 : Mouse brain tissue lysate
Lane 3 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rat IgG H&L (HRP) (**ab205720**) at 1/5000 dilution

Exposure time: Lane 1: 48 seconds; Lane 2, 3: 4.5 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-NeuN antibody [EPR12763] – Rat IgG2a (Chimeric) (ab279297)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized rat primary neural/glia cells labelling NeuN with ab279297 at 1/1000 dilution (0.1µg)/ Right compared with a Mouse monoclonal IgG isotype control/ Left.

Goat F(ab)2 Anti-Rat IgG Fc (Alexa Fluor® 647, **ab150163**) at 1/2000 dilution was used as the secondary antibody.

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