abcam

Product datasheet

Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) ab300113

Recombinant RabMAb

13 Images

Overview

Product name	Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free)
Description	Rabbit monoclonal [EPR25134-4] to pan SCN - BSA and Azide free
Host species	Rabbit
Specificity	This antibody reacts with human SCN1A, SCN3A, and SCN9A but does not react with human SCN4A, SCN5A, SCN8A, SCN10A, and SCN11A.
Tested applications	**Suitable for:** IP, IHC-Fr, WB, IHC-P **Unsuitable for:** Flow Cyt (Intra) or ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human cerebellum, hypothalamus tissue lysates. Mouse brain, hippocampus tissue lysates. Rat brain, hippocampus tissue lysates. HEK-293T cells transfected with a human SCN1A, 2A, 3A, 4A, 5A, 8A , 9A, 10A, and 11A fragment expression vector. IHC-P: Human, mouse, rat brain. IHC-FR: Rat and mouse cerebellum
General notes	ab300113 is a carrier free version of **ab300112**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.20 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR25134-4
Isotype	IgG

Applications

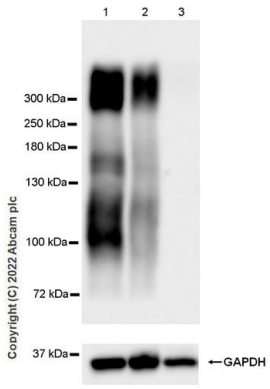
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab300113 in the following tested applications.

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

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 228 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt (Intra) or ICC/IF.

Images



Western blot - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

All lanes : Anti-pan SCN antibody [EPR25134-4] (**ab300112**) at 1/1000 dilution

Lane 1 : Human cerebellum tissue lysate
Lane 2 : Human hypothalamus tissue lysate
Lane 3 : Human heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 228 kDa
Observed band size: 270 kDa

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

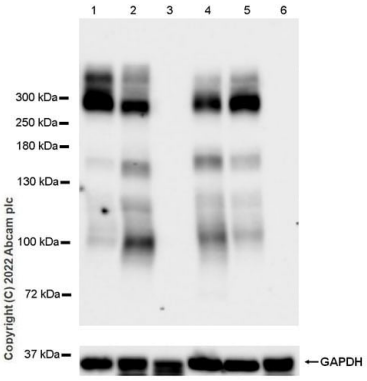
Blocking / Diluting buffer and concentration:

5% NFDM/TBST

Exposure time:

5.5 seconds

Negative control: human heart tissue (PMID: 22081212)



Western blot - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

All lanes : Anti-pan SCN antibody [EPR25134-4] (**ab300112**) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate
Lane 2 : Mouse hippocampus tissue lysate
Lane 3 : Mouse heart tissue lysate
Lane 4 : Rat brain tissue lysate 20
Lane 5 : Rat hippocampus tissue lysate
Lane 6 : Rat heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 228 kDa
Observed band size: 270 kDa

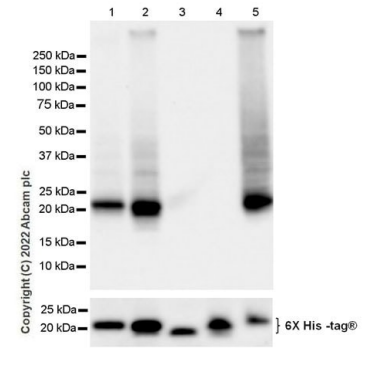
Exposure time: 26 seconds

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Blocking / Diluting buffer and concentration:

5% NFDM/TBST

Negative control: heart (PMID: 22081212)



Western blot - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

All lanes : Anti-pan SCN antibody [EPR25134-4] (**ab300112**) at 1/1000 dilution

Lane 1 : HEK-293T cells transfected with a human SCN1A fragment expression vector containing a his-tag, whole cell lysate
Lane 2 : HEK-293T cells transfected with a human SCN3A fragment expression vector containing a his-tag, whole cell lysate
Lane 3 : HEK-293T cells transfected with a human SCN4A fragment expression vector containing a his-tag, whole cell lysate
Lane 4 : HEK-293T cells transfected with a human SCN5A fragment expression vector containing a his-tag, whole cell lysate
Lane 5 : HEK-293T cells transfected with a human SCN9A fragment expression vector containing a his-tag, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

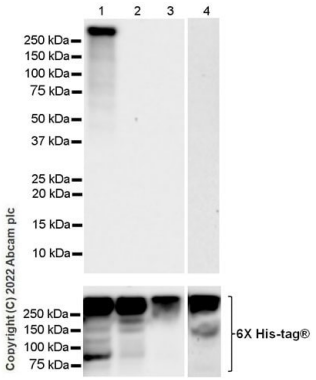
Predicted band size: 228 kDa
Observed band size: 20-25 kDa

Exposure time: 26 seconds

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Blocking / Diluting buffer and concentration:

5% NFDM/TBST



Western blot - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

All lanes : Anti-pan SCN antibody [EPR25134-4] (**ab300112**) at 1/1000 dilution

Lane 1 : HEK-293T cells transfected with a human SCN2A expression vector containing a his-tag, whole cell lysate
Lane 2 : HEK-293T cells transfected with a human SCN10A expression vector containing a his-tag, whole cell lysate
Lane 3 : HEK-293T cells transfected with a human SCN11A expression vector containing a his-tag, whole cell lysate
Lane 4 : HEK-293T cells transfected with a human SCN8A expression vector containing a his-tag, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**)

Predicted band size: 228 kDa
Observed band size: 270 kDa

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

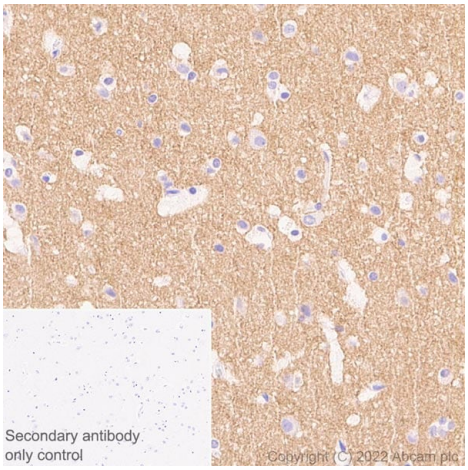
Blocking / Diluting buffer and concentration:

5% NFDM/TBST

Exposure time:

Lane 1-3: 15 seconds

Lane 4: 3 minutes



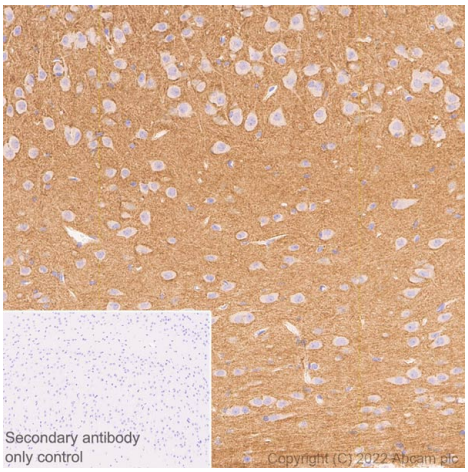
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded human brain labeling SCN2A with **ab300112** at 1/4000 dilution followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Positive staining on human brain is observed. The section was incubated with **ab300112** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



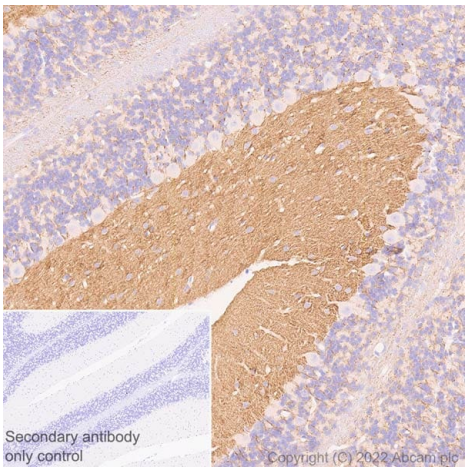
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse brain labeling SCN2A with **ab300112** at 1/4000 dilution followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Positive staining on mouse brain in observed. The section was incubated with **ab300112** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



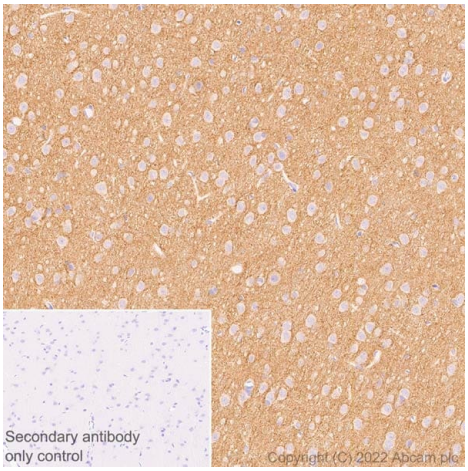
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue labeling SCN2A with **ab300112** at 1/4000 dilution followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Positive staining on mouse cerebellum is observed. The section was incubated with **ab300112** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



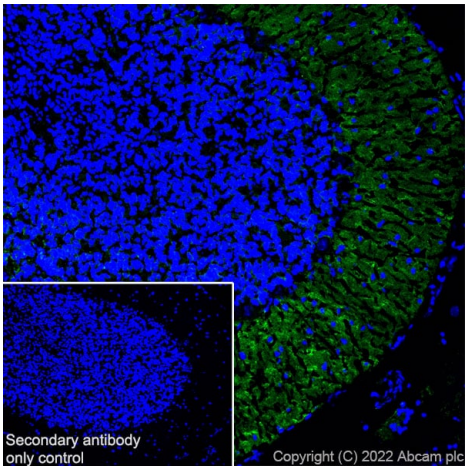
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded rat brain tissue labeling SCN2A with **ab300112** at 1/4000 dilution followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection). Positive staining on rat brain is observed. The section was incubated with **ab300112** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: PBS was used instead of primary antibody followed by ready to use secondary antibody LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

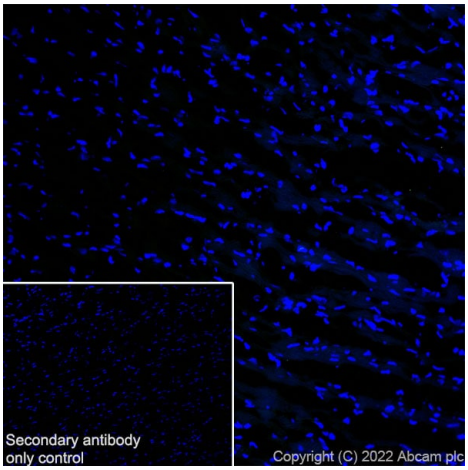


Immunohistochemistry (Frozen sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Positive staining on mouse cerebellum.

Fresh mouse cerebellum was fixed with 4% PFA and permeabilised with 0.2 % Triton X100. Ab300112 was used as a primary antibody at 1/500 dilution. **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was used as a secondary antibody at 1/1000 dilution. DAPI was used as a nuclear counter stain.

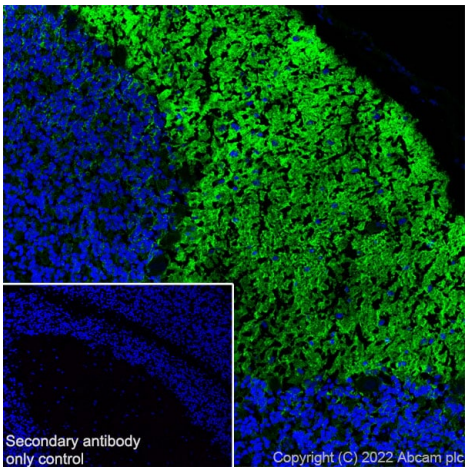


Immunohistochemistry (Frozen sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Negative control. No staining on mouse heart

Fresh mouse heart was fixed with 4% PFA and permeabilised with 0.2 % Triton X100. Ab300112 was used as a primary antibody at 1/500 dilution. **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was used as a secondary antibody at 1/1000 dilution. DAPI was used as a nuclear counter stain.

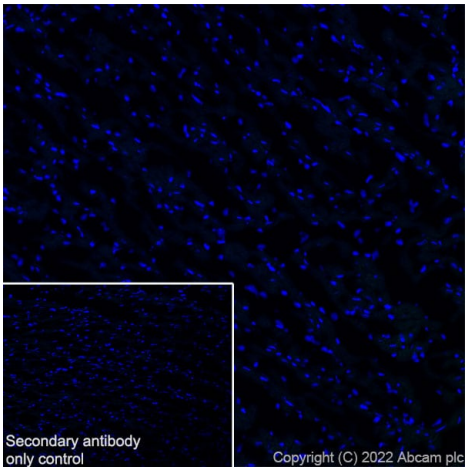


Immunohistochemistry (Frozen sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Positive staining on rat cerebellum.

Fresh rat cerebellum was fixed with 4% PFA and permeabilised with 0.2 % Triton X100. Ab300112 was used as a primary antibody at 1/500 dilution. **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was used as a secondary antibody at 1/1000 dilution . DAPI was used as a nuclear counter stain.



Immunohistochemistry (Frozen sections) - Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

This data was developed using **ab300112**, the same antibody clone in a different buffer formulation.

Negative control. No staining on rat heart

Fresh rat heart was fixed with 4% PFA and permeabilised with 0.2 % Triton X100. Ab300112 was used as a primary antibody at 1/500 dilution. **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was used as a secondary antibody at 1/1000 dilution. DAPI was used as a nuclear counter stain.

Anti-pan SCN antibody [EPR25134-4] (BSA and Azide free) (AB300113)

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