abcam

Product datasheet

Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free ab236148

重组 RabMAb

8 图像

概述

产品名称	Anti-NeuroD1抗体[EPR17084] - BSA and Azide free
描述	兔单克隆抗体[EPR17084] to NeuroD1 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IHC-Fr, WB
种属反应性	**与反应:** Mouse, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	ICC/IF: SH-SY5Y, Y79 and mouse primary neural/glia cells. IHC-Fr: Frozen mouse brain tissue sections and mouse hippocampus.
常规说明	ab236148 is the carrier-free version of **ab205300**. 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**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR17084
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab236148于以下的经测试应用

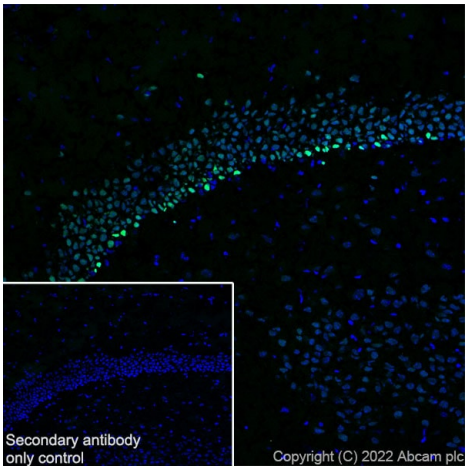
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 47 kDa (predicted molecular weight: 40 kDa).

靶标

功能	Differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar cortex. Transcriptional activator. Binds to the insulin gene E-box.
疾病相关	Defects in NEUROD1 are the cause of maturity-onset diabetes of the young type 6 (MODY6) [MIM:606394]. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.
序列相似性	Contains 1 basic helix-loop-helix (bHLH) domain.
翻译后修饰	Phosphorylated. In islet cells, phosphorylated on Ser-274 upon glucose stimulation; which may be required for nuclear localization. In activated neurons, phosphorylated on Ser-335; which promotes dendritic growth.
细胞定位	Cytoplasm. Nucleus.

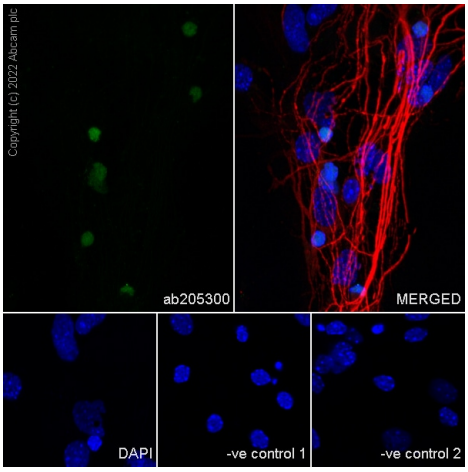
图片



Immunohistochemistry (Frozen sections) - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized fresh Mouse hippocampus tissue labelling NeuroD1 with **ab205300** at 1/50 dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary at 1/1000 dilution. Positive staining on mouse hippocampus tissue is observed. The nuclear counterstain was DAPI (Blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205300**).



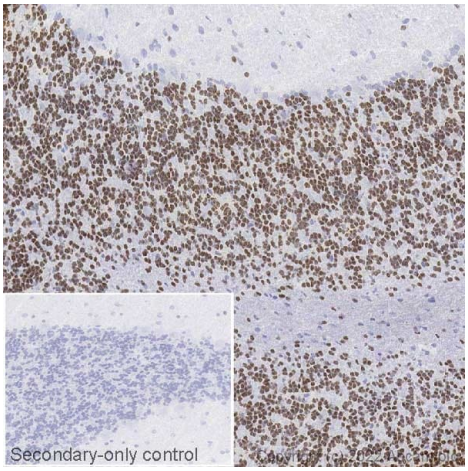
Immunocytochemistry/ Immunofluorescence - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neural/glia cells labelling NeuroD1 with primary antibody anti-NeuroD1 (**ab205300**) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150081**) secondary antibody at 1/1000 dilution. Confocal image showing nuclear staining in part of mouse primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Anti-MAP2 mouse monoclonal antibody (**ab11267**) was used to counterstain at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) as a secondary counterstain antibody at 1/1000 dilution. The nuclear counter stain is DAPI (blue).

The negative controls are as follows:-

Negative control 1: **ab205300** at 1/100 dilution followed by **ab150120** Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution.
Negative control 2: **ab11267** Anti-MAP2 mouse monoclonal antibody at 1/500 dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

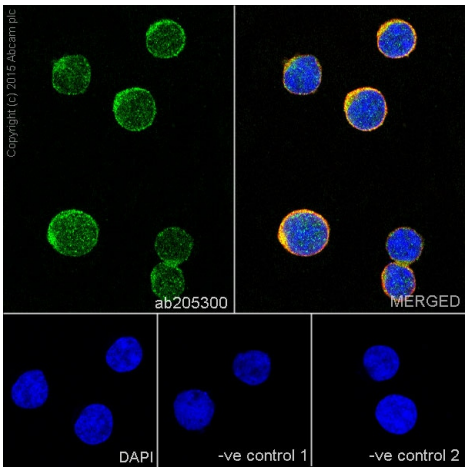
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205300**).



Immunohistochemistry (Frozen sections) - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

IHC image of NeuroD1 staining in a section of frozen normal mouse brain performed on a Leica Biosystems BOND® RX instrument. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab205300**, 10 ug/ml, for 15 mins at room temperature and detected using an HRP conjugated 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205300**).



Immunocytochemistry/ Immunofluorescence - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Y79 (Human retinoblastoma cell line) cells labeling NeuroD1 with **ab205300** at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic and nuclear staining on Y79 cell line.

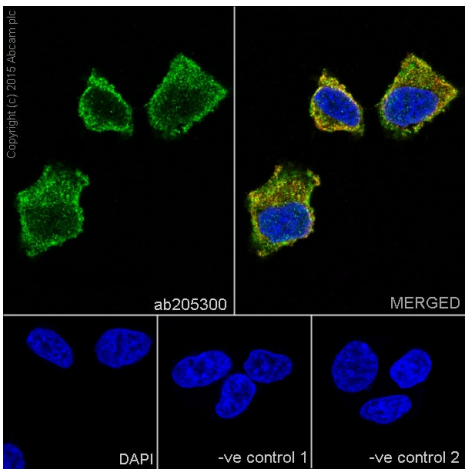
The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: **ab205300** at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205300**).



Immunocytochemistry/ Immunofluorescence - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (Human neuroblastoma from bone marrow cells) cells labeling NeuroD1 with **ab205300** at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic and nuclear staining on SH-SY5Y cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: **ab205300** at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

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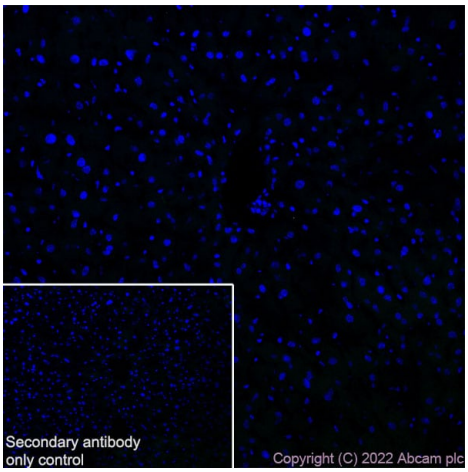
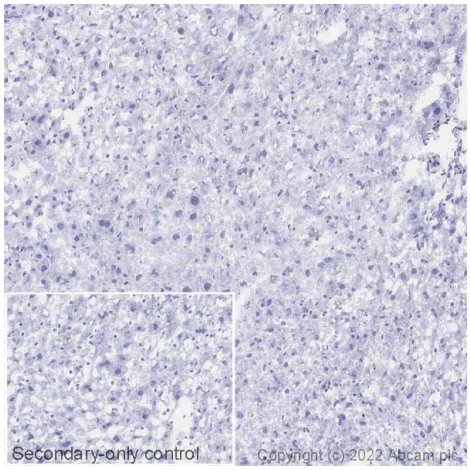


Immunohistochemistry (Frozen sections) - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized fresh Mouse liver tissue labelling NeuroD1 with **ab205300** at 1/50 dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary at 1/1000 dilution. No staining on mouse liver tissue is observed. The nuclear counterstain was DAPI (Blue). Negative control (PMID: 24309898).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab205300**).



Immunohistochemistry (Frozen sections) - Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

Negative tissue image: IHC image of NeuroD1 staining in a section of frozen normal mouse liver performed on a Leica Biosystems BOND® RX instrument. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with **ab205300**, 10 ug/ml, for 15 mins at room temperature and detected using an HRP conjugated 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.
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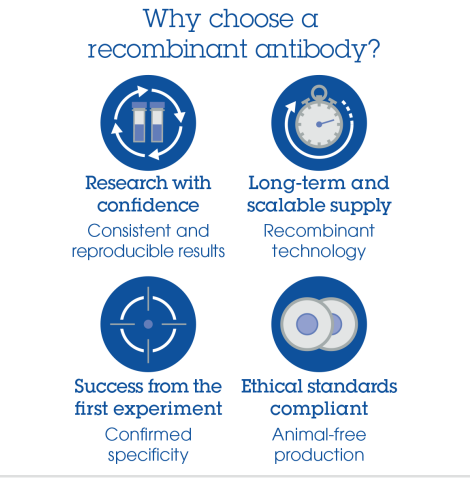

Anti-NeuroD1 antibody [EPR17084] - BSA and Azide free (ab236148)

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