

### Anti-NeuroD1 antibody [EPR20766] ab213725

**重组** RabMAb

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#### 概述

产品名称	Anti-NeuroD1抗体[EPR20766]
描述	兔单克隆抗体[EPR20766] to NeuroD1
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-P, IP, Flow Cyt (Intra) <b>不适用于:</b> ICC or IHC-Fr
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Y79 whole cell lysate; rat retina tissue lysate and mouse P3 (postnatal day 3) retina tissue lysate. IP: Y79 whole cell lysate. IHC-P: Mouse hippocampus tissue; rat hippocampus tissue. Flow Cyt (intra): Y97 cells.
常规说明	<p>The Human species recommendation is based on the WB results. We do not guarantee IHC-P for Human.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol, PBS
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR20766
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™承诺保证使用ab213725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。**

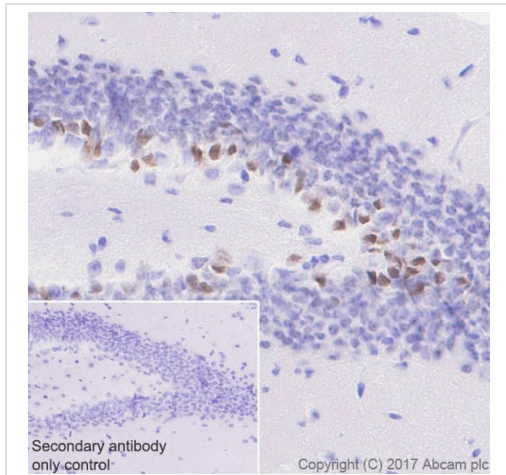
应用	Ab评论	说明
<b>WB</b>		1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 40 kDa).
<b>IHC-P</b>		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The Human species recommendation is based on the WB results. We do not guarantee IHC-P for Human.
<b>IP</b>		1/30.
<b>Flow Cyt (Intra)</b>		1/50.

**应用说明** Is unsuitable for ICC or IHC-Fr.

## 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

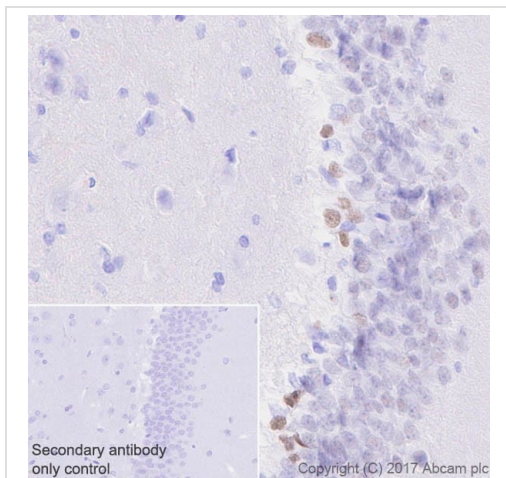


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD1 antibody [EPR20766] (ab213725)

Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue labeling NeuroD1 with ab213725 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on subgranular zone of the mouse hippocampus dentate gyrus (PMID: 19701197, PMID: 25825708) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

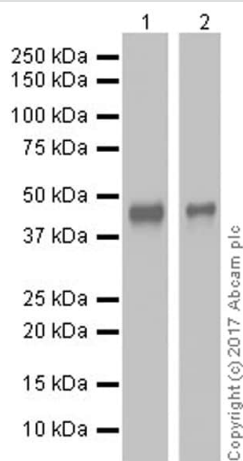


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD1 antibody [EPR20766] (ab213725)

Immunohistochemical analysis of paraffin-embedded rat hippocampus tissue labeling NeuroD1 with ab213725 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on subgranular zone of the rat hippocampus (PMID: 19701197, PMID: 25825708) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-NeuroD1 antibody [EPR20766]  
(ab213725)

**All lanes :** Anti-NeuroD1 antibody [EPR20766] (ab213725) at 1/1000 dilution

**Lane 1 :** Y79 (human retinoblastoma cell line) whole cell lysate

**Lane 2 :** Mouse P3 (postnatal day 3) retina lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

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

Developed using the ECL technique.

**Predicted band size:** 40 kDa

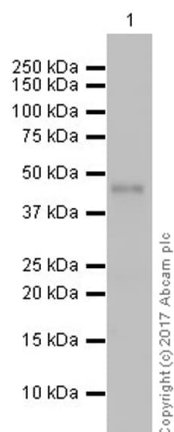
**Observed band size:** 39 kDa

Blocking/dilution buffer: 5% NFDM/TBST

Exposure times.

Lane 1: 10 seconds

Lane 2: 30 seconds



Western blot - Anti-NeuroD1 antibody [EPR20766] (ab213725)

Anti-NeuroD1 antibody [EPR20766] (ab213725) at 1000 cells +  
Rat retina tissue lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

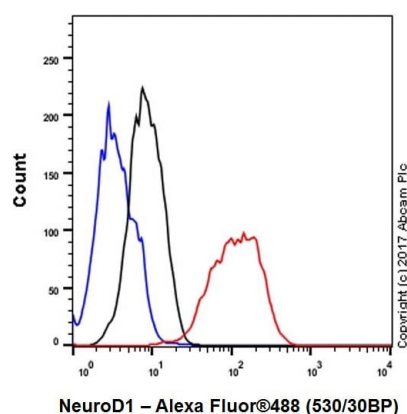
Developed using the ECL technique.

**Predicted band size:** 40 kDa

**Observed band size:** 39 kDa

**Exposure time:** 3 minutes

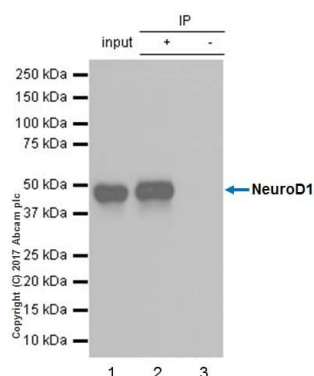
Blocking/dilution buffer: 5% NFDM/TBST



Flow Cytometry (Intracellular) - Anti-NeuroD1 antibody [EPR20766] (ab213725)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized Y79 (human retinoblastoma cell line) cell line labeling NeuroD1 with ab213725 at 1/50 (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype control details ([ab172730](#)) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue).

Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)), at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-NeuroD1 antibody  
[EPR20766] (ab213725)

NeuroD1 was immunoprecipitated from 0.35 mg of Y79 (human retinoblastoma cell line) whole cell lysate with ab213725 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab213725 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1,000 dilution

Lane 1: Y79 whole cell lysate 10 µg (Input).

Lane 2: ab213725 IP in Y79 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab213725 in Y79 whole cell lysate.

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

Exposure time: 1 second.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-NeuroD1 antibody [EPR20766] (ab213725)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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