

### Anti-NeuroD1 antibody [EPR20766] ab213725

リコンビナント RabMAb

[2 Abreviews](#) [13 References](#) [画像数 7](#)

#### 製品の概要

製品名	Anti-NeuroD1 antibody [EPR20766]
製品の詳細	Rabbit monoclonal [EPR20766] to NeuroD1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P, IP, Flow Cyt (Intra) <b>適用なし:</b> ICC or IHC-Fr
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	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.
特記事項	<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>

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol, PBS
精製度	Protein A purified

ポリクローナル  
モノクローナル

クローン名  
EPR20766

アイソタイプ  
IgG

#### アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab213725の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 40 kDa).
IHC-P		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.
IP		1/30.
Flow Cyt (Intra)		1/50.

**追加情報** Is unsuitable for ICC or IHC-Fr.

#### ターゲット情報

**機能** Differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar cortex. Transcriptional activator. Binds to the insulin gene E-box.

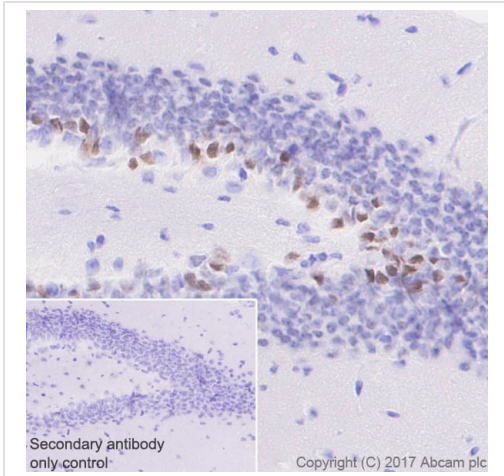
**関連疾患** Defects in NEUROD1 are the cause of maturity-onset diabetes of the young type 6 (MODY6) [MIM:606394]. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.

**配列類似性** Contains 1 basic helix-loop-helix (bHLH) domain.

**翻訳後修飾** 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.

**細胞内局在** Cytoplasm. Nucleus.

#### 画像

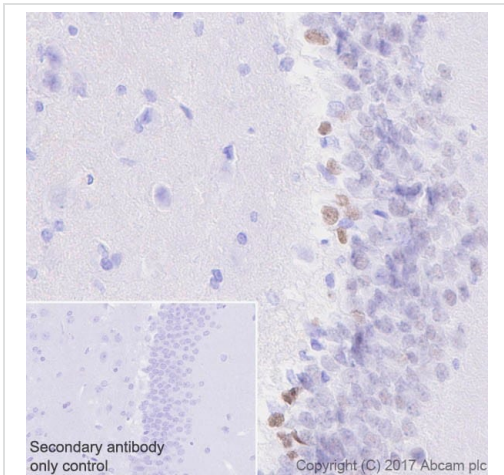


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD1 antibody [EPR20766] (ab213725)

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.

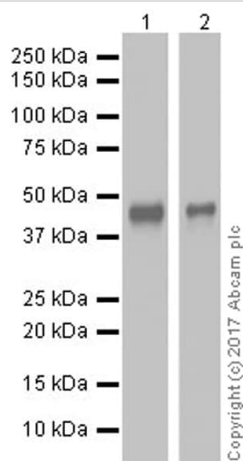


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD1 antibody [EPR20766] (ab213725)

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

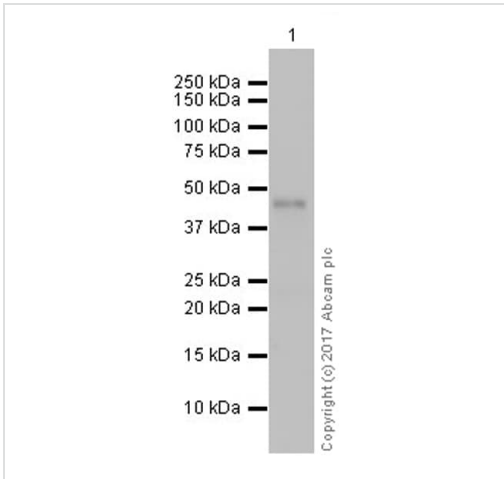
**Observed band size:** 39 kDa

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

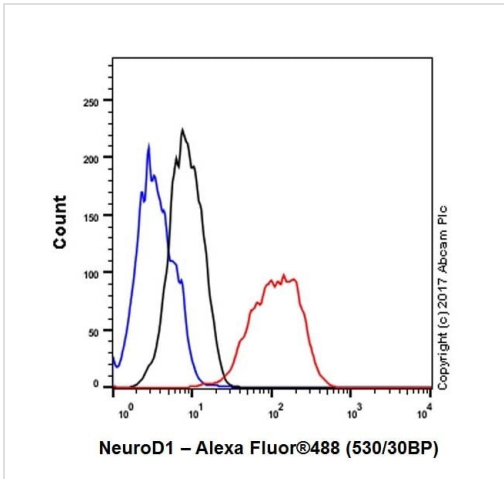
Developed using the ECL technique.

**Predicted band size:** 40 kDa

**Observed band size:** 39 kDa

**Exposure time:** 3 minutes

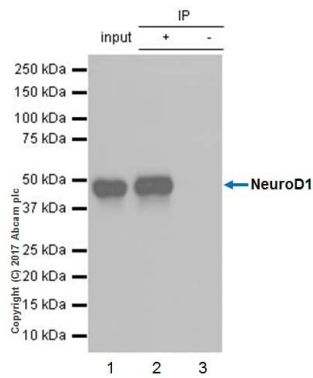
Blocking/dilution buffer: 5% NFD/MTBST



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?

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-NeuroD1 antibody [EPR20766] (ab213725)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors