


### Anti-NeuroD2 antibody ab104430

★★★★★ [7 Abreviews](#) [22 References](#) [5 Images](#)

#### Overview

Product name	Anti-NeuroD2 antibody
Description	Rabbit polyclonal to NeuroD2
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IHC-P, IHC-Fr, WB
Species reactivity	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Gorilla, Chinese hamster 
Immunogen	Synthetic peptide corresponding to Mouse NeuroD2 aa 1-100 (N terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab124135</a> )
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab104430 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
IHC-P	★★★★★ (4)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (1)	1/2000. Tissue was perfusion fixed in 10% formaldehyde. Staining appeared more intense without antigen retrieval.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 41 kDa).

## Target

### Function

Appears to mediate neuronal differentiation.

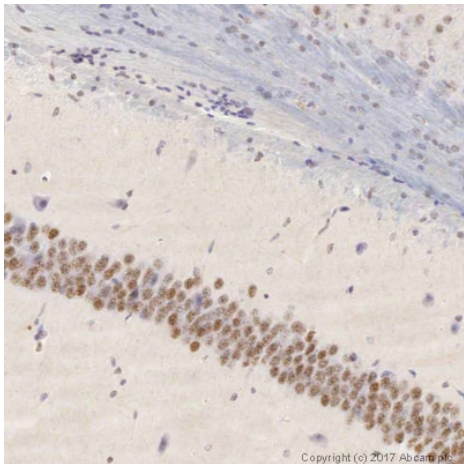
### Sequence similarities

Contains 1 basic helix-loop-helix (bHLH) domain.

### Cellular localization

Nucleus.

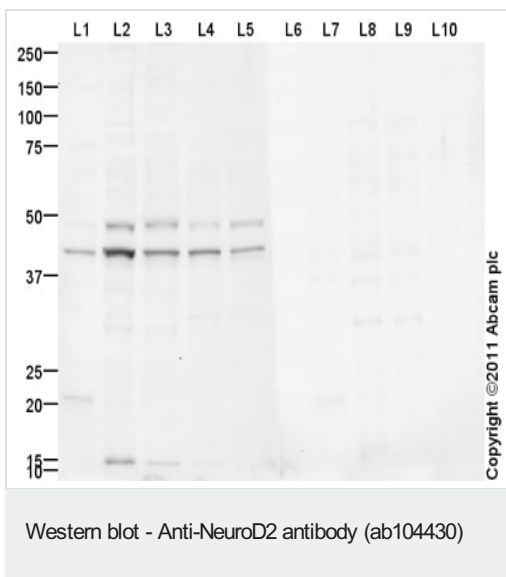
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD2 antibody (ab104430)

IHC image of NeuroD2 staining in a formalin fixed, paraffin embedded mouse brain tissue section, performed on a Leica Bond™ 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 20 mins. The section was then incubated with ab104430, 5 µg/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.

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.



**All lanes :** Anti-NeuroD2 antibody (ab104430) at 1 µg/ml

**Lane 1 :** Human brain tissue lysate - total protein ([ab29466](#))

**Lane 2 :** Cerebellum Mouse Tissue Lysate

**Lane 3 :** Mouse Hippocampus Tissue Lysate

**Lane 4 :** P0 Mouse Brain Mouse Tissue Lysate

**Lane 5 :** P7 Mouse Brain Tissue Lysate

**Lane 6 :** Human brain tissue lysate - total protein ([ab29466](#)) with Immunising peptide at 1 µg/ml

**Lane 7 :** Cerebellum Mouse Tissue Lysate with Immunising peptide at 1 µg/ml

**Lane 8 :** Mouse Hippocampus Tissue Lysate with Immunising peptide at 1 µg/ml

**Lane 9 :** P0 Mouse Brain Mouse Tissue Lysate with Immunising peptide at 1 µg/ml

**Lane 10 :** P7 Mouse Brain Tissue Lysate with Immunising peptide at 1 µg/ml

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

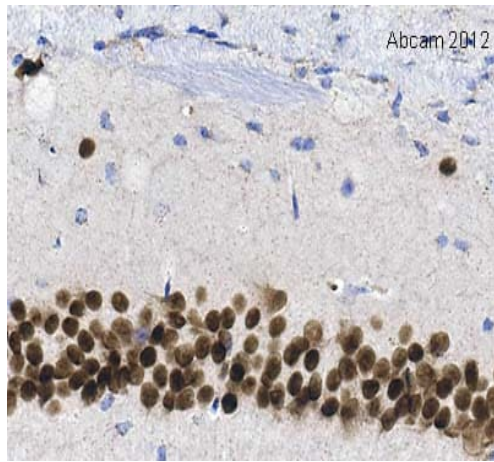
Performed under reducing conditions.

**Predicted band size:** 41 kDa

**Observed band size:** 50 kDa

**Additional bands at:** 21 kDa, 41 kDa. We are unsure as to the identity of these extra bands.

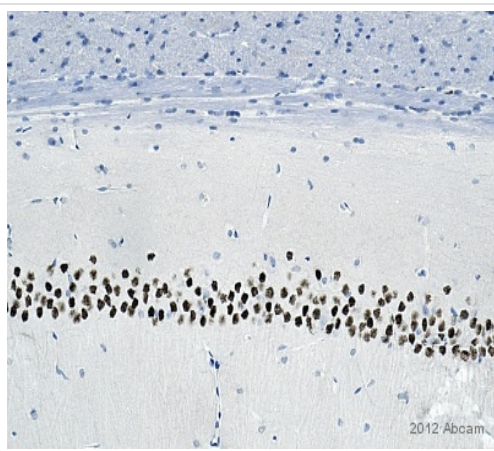
**Exposure time:** 4 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD2 antibody (ab104430)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

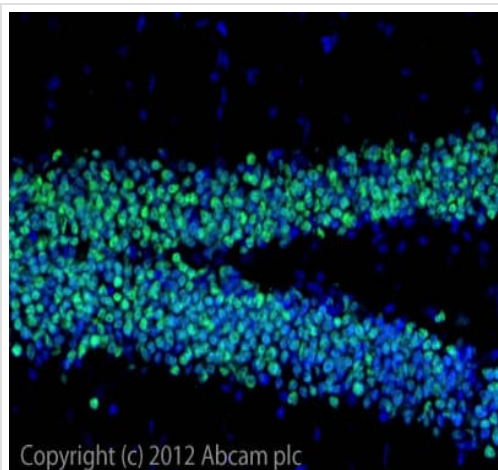
IHC-P image of NeuroD2 staining on mouse CA1 hippocampus sections using ab104430 (1:2000). The sections were deparaffinized and subjected to heat mediated antigen retrieval using citric acid. The sections were then blocked using 1% BSA at 21°C for 10 min. The primary antibody was incubated at 21°C for 2 hours.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NeuroD2 antibody (ab104430)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

IHC-P image of NeuroD2 staining on rat CA1 hippocampus sections using ab104430 (1:1000). The sections were deparaffinized and subjected to heat mediated antigen retrieval using citric acid. The sections were then blocked using 1% BSA at 21°C for 10 min. The primary antibody was incubated at 21°C for 2 hours



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Immunohistochemistry (Frozen sections) - Anti-NeuroD2 antibody (ab104430)

ab104430 staining NeuroD2 in 10% formaldehyde perfusion fixed 6 week old frozen mouse brain section (dentate gyrus). No antigen retrieval was performed. The section was incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab104430, 1/2000 dilution) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. DAPI was used to stain the cell nuclei (blue).

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

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