

Product datasheet

Anti-NeuroD2 antibody [EPR5135] ab109406

Recombinant RabMAb

★★★★★ 3 Abreviews 4 References 4 Images

Overview

Product name	Anti-NeuroD2 antibody [EPR5135]
Description	Rabbit monoclonal [EPR5135] to NeuroD2
Host species	Rabbit
Tested applications	Suitable for: ChIP, WB Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human NeuroD2 aa 350-450. The exact sequence is proprietary.
Positive control	WB: Human cerebellum, Human hippocampus, and fetal brain, Mouse cerebellum, Rat cerebellum lysates
General notes	

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](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5135
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109406** in the following tested applications.

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

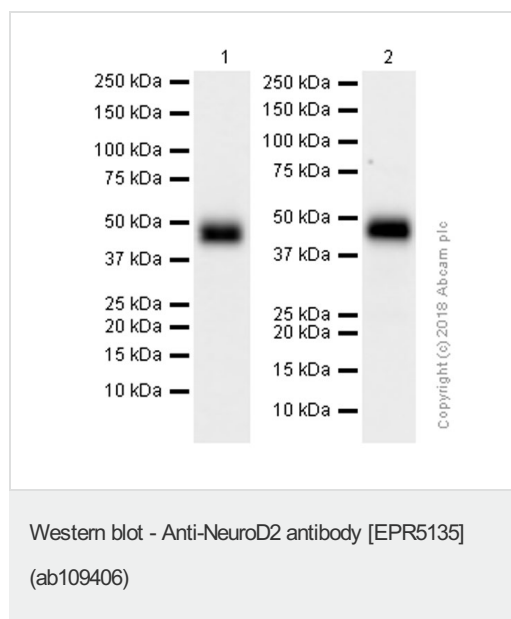
Application	Abreviews	Notes
ChIP	★★★★★	Use at an assay dependent concentration.
WB	★★★★★	1/1000 - 1/10000. Detects a band of approximately 48 kDa (predicted molecular weight: 41 kDa).

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	Appears to mediate neuronal differentiation.
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Cellular localization	Nucleus.

Images



All lanes : Anti-NeuroD2 antibody [EPR5135] (ab109406) at 1/1000 dilution (Purified)

Lane 1 : Mouse cerebellum lysates

Lane 2 : Rat cerebellum lysates

Lysates/proteins at 15 µg per lane.

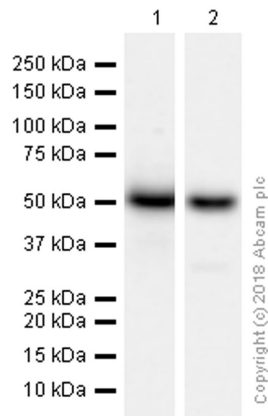
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 41 kDa

Observed band size: 48 kDa

[why is the actual band size different from the predicted?](#)



Western blot - Anti-NeuroD2 antibody [EPR5135] (ab109406)

All lanes : Anti-NeuroD2 antibody [EPR5135] (ab109406) at 1/1000 dilution (Purified)

Lane 1 : Human cerebellum lysates at 20 µg

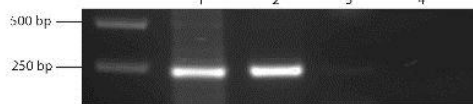
Lane 2 : Human fetal brain lysates at 20 µg

Secondary

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

Predicted band size: 41 kDa

Observed band size: 48 kDa [why is the actual band size different from the predicted?](#)



1. Input Chromatin DNA
2. ChIP DNA prepared using ab109406 antibody
3. ChIP DNA prepared using anti-GFP antibody (unrelated antibody serves as negative control.)
4. No DNA control for potential PCR contamination.

2014 Abcam

ChIP - Anti-NeuroD2 antibody [EPR5135] (ab109406)

This image is courtesy of an anonymous Abreview

ChIP analysis using ab109406 binding NeuroD2 in cerebral cortex tissue lysate from postnatal day 0 mouse. Cells were cross-linked for 10 minutes with 1% formaldehyde. Samples were incubated with primary antibody (1/200) for 2 hours at 4°C.

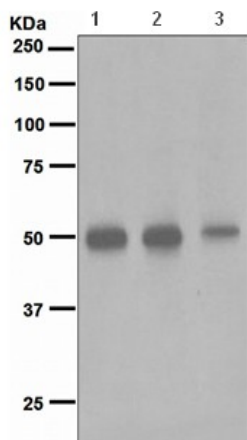
Positive control: Known target of NeuroD2, which is the promoter regions of Nhlh2 gene.

Primer sequence for PCR was:

Nhlh2_F CTCACGAACTTCACCCGCAC

Nhlh2_R AAATTGACTCCTCGGCCCTC

Negative Control: ChIP performed with unrelated antibody (anti-GFP antibody).



Western blot - Anti-NeuroD2 antibody [EPR5135] (ab109406)

All lanes : Anti-NeuroD2 antibody [EPR5135] (ab109406) at 1/1000 dilution

Lane 1 : Human cerebellum lysate

Lane 2 : Human hippocampus lysate

Lane 3 : Human fetal brain lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 41 kDa

Observed band size: 48 kDa [why is the actual band size different from the predicted?](#)

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