abcam

Product datasheet

Anti-NeuroDl antibody [EPR4008] - BSA and Azide free ab239955



2 Images

Overview

Product name Anti-NeuroD1 antibody [EPR4008] - BSA and Azide free

Description Rabbit monoclonal [EPR4008] to NeuroD1 - BSA and Azide free

Host species Rabbit

Tested applications Suitable for: ICC/IF, WB

Unsuitable for: Flow Cyt or IHC-P

Species reactivity Reacts with: Mouse, Human

Predicted to work with: Rat

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control ICC/IF: Mouse primary neuron cells.

General notes ab239955 is the carrier-free version of ab109224.

> 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 cellbased 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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal
Clone number EPR4008

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab239955 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
ICC/IF		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).

Application notes Is unsuitable for Flow Cyt or IHC-P.

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Function Differentiation factor required for dendrite morphogenesis and maintenance in the cerebellar

cortex. Transcriptional activator. Binds to the insulin gene E-box.

Involvement in diseaseDefects 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.

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

Post-translational modifications

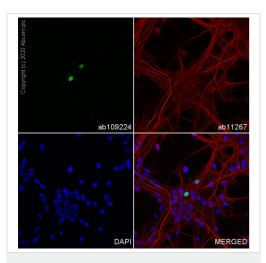
Phosphorylated. In islet cells, phosphorylated on Ser-274 upon glucose stimulation; which may be

required for nuclear localization. In activated neurons, phosphorylated on Ser-335; which

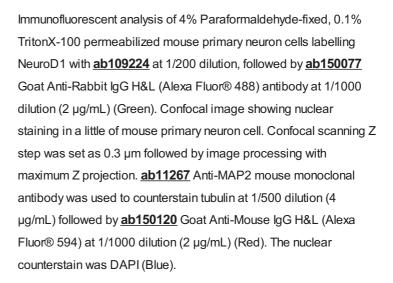
promotes dendritic growth.

Cellular localization Cytoplasm. Nucleus.

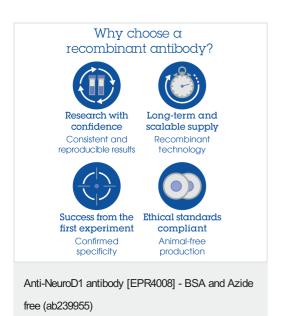
Images



Immunocytochemistry/ Immunofluorescence - Anti-NeuroD1 antibody [EPR4008] - BSA and Azide free (ab239955)



This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab109224).



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

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- 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

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