abcam

Product datasheet

Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free ab240385

Recombinant RabMAb

6 Images

Overview

Product name	Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free
Description	Rabbit monoclonal [EPR19840] to MASH1/Achaete-scute homolog 1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
General notes	ab240385 is the carrier-free version of **ab211327**. 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 cell-based 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 monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	EPR19840
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240385 in the following tested applications.

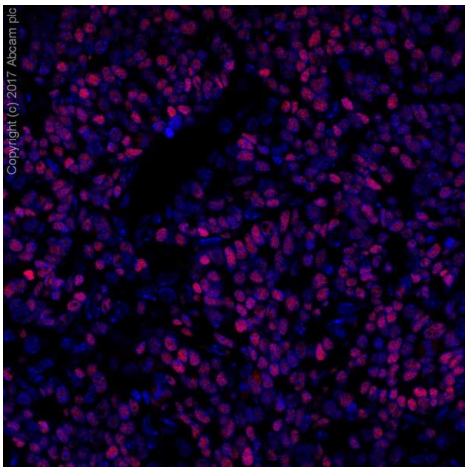
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 30 kDa (predicted molecular weight: 25 kDa).
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	May play a role at early stages of development of specific neural lineages in most regions of the CNS, and of several lineages in the PNS. Essential for the generation of olfactory and autonomic neurons. Activates transcription by binding to the E box (5'-CANNTG-3').
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

Immunohistochemical analysis of 4% paraformaldehyde-fixed mouse small cell lung cancer section labeling MASH1/Achaete-scute homolog 1 with **ab211327** at 1/100 dilution, followed by Donkey anti Rabbit Alexa-594 at 1/500 dilution (red).

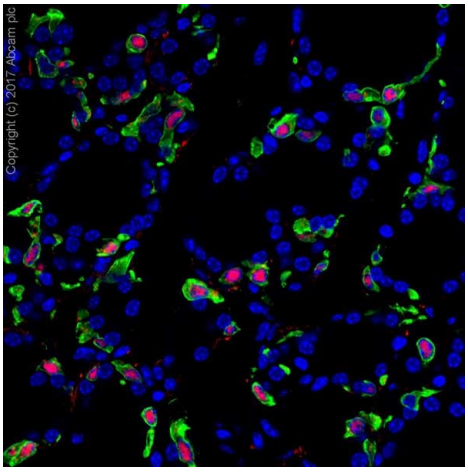
Nuclear counterstain: DAPI (blue).

Positive staining of MASH1/Achaete-scute homolog 1 on mouse small cell lung cancer.

The image was kindly provided by our collaborator Dr. Hai Song, Zhejiang University.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211327**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

Immunohistochemical analysis of 4% paraformaldehyde-fixed *Ascl1*$^{CreER/+}$; *ROSA26*$^{mTmG/+}$ mouse thyroid tissue labeling MASH1/Achaete-scute homolog 1 with **ab211327** at 1/100 dilution, followed by Tyramide Signal Amplification (red).

Counterstain: DAPI (blue) and chick anti-GFP (green).

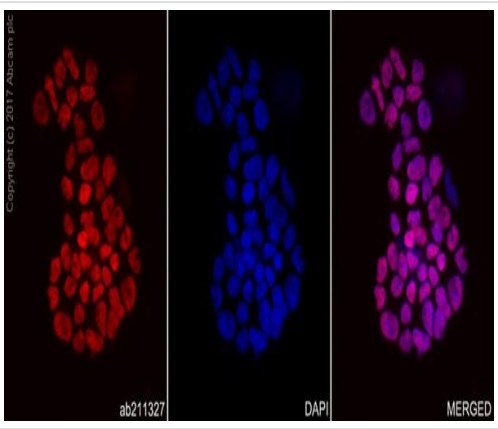
ROSA26$^{mTmG/+}$ mice were bred with *Ascl1*$^{CreER/+}$ mice, in which the Ascl1 promoter drives the expression of Cre, to generate mice carrying the genotype of *Ascl1*$^{CreER/+}$; *ROSA26*$^{mTmG/+}$. Cre activation upon Tamoxifen administration resulted in eGFP expression from the *ROSA26*$^{mTmG/+}$ allele. The thyroid tissue from *Ascl1*$^{CreER/+}$; *ROSA26*$^{mTmG/+}$ mouse was fixed and embedded in paraffin. Paraffin section was stained with rabbit anti-MASH1/Achaete-scute homolog 1 (**ab211327**) antibody (Red color) and chick anti-GFP antibody (Green color). Tyramide signal amplification was used for high-resolution imaging of low-abundance targets.

The image was kindly provided by our collaborator Dr. Hai Song, Zhejiang University.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide (**ab211327**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

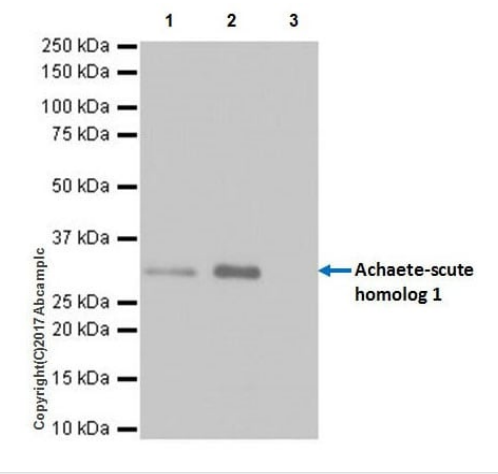
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.5% Triton X-100 permeabilized NCI-H69 Human small cell lung cancer cells labeling MASH1/Achaete-scute homolog 1 with **ab211327** at 1/100 dilution (red).

The nuclear counterstain is DAPI (blue).

Nuclear MASH1/Achaete-scute homolog 1 staining on NCI-H69 cells.

The images were kindly provided by our collaborator Dr. Hai Song, Zhejiang University.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211327**).



Immunoprecipitation - Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

MASH1/Achaete-scute homolog 1 was immunoprecipitated from 0.35 mg of mouse medullary thyroid cancer lysate with **ab211327** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab211327** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Mouse medullary thyroid cancer lysate 10 µg (Input).

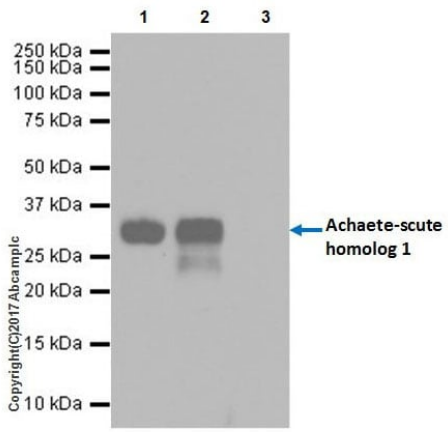
Lane 2: **ab211327** IP in mouse medullary thyroid cancer lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab211327** in mouse medullary thyroid cancer lysate.

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

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211327**).



Immunoprecipitation - Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

MASH1/Achaete-scute homolog 1 was immunoprecipitated from 0.35 mg of NCI-H69 (Human small cell lung cancer cell line) whole cell lysate with **ab211327** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab211327** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: NCI-H69 whole cell lysate 10 µg (Input).

Lane 2: **ab211327** IP in NCI-H69 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab211327** in NCI-H69 whole cell lysate.

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

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211327**).

Anti-MASH1/Achaete-scute homolog 1 antibody [EPR19840] - BSA and Azide free (ab240385)

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