

**ASCL1 (Achaete-scute homolog 1) Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2019B****Specification**

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**ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P50553</a>
Other Accession	<a href="#">P19359</a> , <a href="#">Q02067</a> , <a href="#">NP_004307</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	166-196

**ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Additional Information****Gene ID** 429**Other Names**

Achaete-scute homolog 1, ASH-1, hASH1, Class A basic helix-loop-helix protein 46, bHLHa46, ASCL1, ASH1, BHLHA46, HASH1

**Target/Specificity**

This ASCL1 (Achaete-scute homolog 1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 166-196 amino acids from the C-terminal region of human ASCL1 (Achaete-scute homolog 1).

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ASCL1 (Achaete-scute homolog 1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Protein Information****Name** ASCL1 ([HGNC:738](#))

**Function** Transcription factor that plays a key role in neuronal differentiation: acts as a pioneer transcription factor, accessing closed chromatin to allow other factors to bind and activate neural pathways. Directly binds the E box motif (5'-CANNTG-3') on promoters and promotes transcription of neuronal genes. The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro. Plays 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. Acts synergistically with FOXN4 to specify the identity of V2b neurons rather than V2a from bipotential p2 progenitors during spinal cord neurogenesis, probably through DLL4-NOTCH signaling activation. Involved in the regulation of neuroendocrine cell development in the glandular stomach (By similarity).

#### Cellular Location

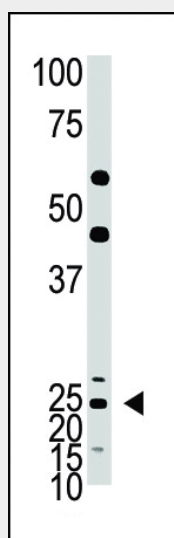
Nucleus {ECO:0000250|UniProtKB:Q02067}.

### ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Images



The anti-Hash1 Pab (Cat. #AP2019a) is used in Western blot to detect Hash1 in mouse lung tissue lysate.

### ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - Background

ASCL1, alternatively titled Hash1 or Mash1, is a member of the basic helix-loop-helix (BHLH) family of transcription factors. It activates transcription by binding to the E box (5'-CANNTG-3').

Dimerization with other BHLH proteins is required for efficient DNA binding. ACSL1 plays a role in the neuronal commitment and differentiation and in the generation of olfactory and autonomic neurons. The protein is highly expressed in medullary thyroid cancer and small cell lung cancer and may be a useful marker for these cancers. The presence of a CAG repeat in the gene suggests it may also play a role in tumor formation.

#### **ASCL1 (Achaete-scute homolog 1) Antibody (C-term) - References**

Sriuranpong, V., et al., Mol. Cell. Biol. 22(9):3129-3139 (2002). Westerman, B.A., et al., Clin. Cancer Res. 8(4):1082-1086 (2002). Chen, H., et al., Cell Growth Differ. 8(6):677-686 (1997). Borges, M., et al., Nature 386(6627):852-855 (1997). Renault, B., et al., Genomics 30(1):81-83 (1995).