

**ASCL2 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11065****Specification**

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**ASCL2 antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">O35885</a>
Other Accession	<a href="#">NM_008554</a> , <a href="#">NP_032580</a>
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Bovine, Dog
Predicted Host	Mouse, Rat, Pig, Chicken, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 29kDa kDa

**ASCL2 antibody - middle region - Additional Information****Gene ID** 17173

Alias Symbol **Mash2, bHLHa45, 2410083I15Rik**  
**Other Names**  
Achaete-scute homolog 2, ASH-2, mASH-2, mASH2, Ascl2, Mash2

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-ASCL2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

ASCL2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**ASCL2 antibody - middle region - Protein Information**

**Name** Ascl2

**Synonyms** Mash2

**Function**

Transcription factor (PubMed: [10611232](http://www.uniprot.org/citations/10611232), PubMed: [29500235](http://www.uniprot.org/citations/29500235)). Binds to E-box motifs 5'-CANNTG-3' in the regulatory elements of target genes, probably as a heterodimer with another basic helix-loop-helix (bHLH) protein such as the transcription factor TCF3 (PubMed: [10611232](http://www.uniprot.org/citations/10611232), PubMed: [29500235](http://www.uniprot.org/citations/29500235)).

target="\_blank">29500235</a>). May bind both open and closed chromatin, acting as a pioneer transcription factor to allow other factors to bind and activate lineage-specific genes (PubMed:<a href="http://www.uniprot.org/citations/29500235" target="\_blank">29500235</a>). Required during post-implantation development for the generation of some differentiated trophoblast cell types (PubMed:<a href="http://www.uniprot.org/citations/8090202" target="\_blank">8090202</a>). Transcriptional activity of ASCL2 may be antagonised in a subset of trophoblast cells by bHLH transcription factor HAND1, perhaps by competing for dimerization with other bHLH proteins (PubMed:<a href="http://www.uniprot.org/citations/10611232" target="\_blank">10611232</a>). Involved in differentiation and function of follicular T-helper (Tfh) cells, thereby playing a role in germinal center responses; probably modulates expression of genes involved in Tfh cell function, such as BCL6 (PubMed:<a href="http://www.uniprot.org/citations/24463518" target="\_blank">24463518</a>). May also act as a suppressor of Th1-, Th2- and Th17-cell differentiation (PubMed:<a href="http://www.uniprot.org/citations/24463518" target="\_blank">24463518</a>). Induces the formation of stem cells in intestinal crypts in vitro, synergistically activating transcription of target genes, such as SOX9, together with TCF4/beta-catenin (PubMed:<a href="http://www.uniprot.org/citations/25620640" target="\_blank">25620640</a>). May form a bistable transcriptional switch, controlling expression of its own gene together with Wnt/R-spondin signaling, and thereby maintaining stem cell characteristics (PubMed:<a href="http://www.uniprot.org/citations/25620640" target="\_blank">25620640</a>). Modulates expression of target genes, including perhaps down-regulating EGR1/Krox24 and chemokine CXCL10/Mob-1 and up-regulating CXCR4 and CDKN1C/p57kip2, in Schwann cells (By similarity). May play a role in reducing proliferation of Schwann cells, perhaps acting via modulation of expression of CDKN1C (By similarity). May be dispensable for blastocyst formation and later embryonic function (PubMed:<a href="http://www.uniprot.org/citations/8090202" target="\_blank">8090202</a>, PubMed:<a href="http://www.uniprot.org/citations/9622625" target="\_blank">9622625</a>). May be involved in the determination of neuronal precursors (By similarity).

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:P19360}.

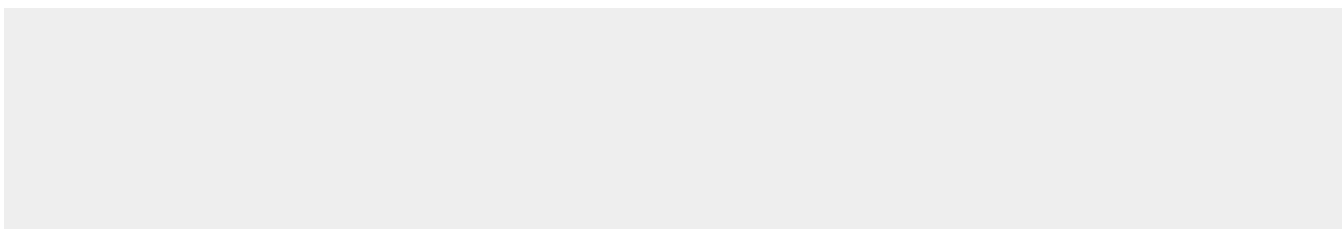
**Tissue Location**

Expressed in follicular T-helper (Tfh) cells.

**ASCL2 antibody - middle region - 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](#)

**ASCL2 antibody - middle region - Images**



WB Suggested Anti-ASCL2 Antibody Titration: 5.0µg/ml

ELISA Titer: 1:312500

Positive Control: Human Small intestine

### **ASCL2 antibody - middle region - References**

Georgiades,P. (2006) Development 133 (6), 1059-1068  
Reconstitution and Storage: For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.