Recombinant Mouse Ascl1 Protein, Myc/DDK-tagged

Cat. No. Ascl1-1739M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length achaete-scute family bHLH transcription factor 1 (Ascl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	25.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ascl1 achaete-scute family bHLH transcription factor 1 [Mus musculus (house mouse)]
Official Symbol	Ascl1
Synonyms	ASCL1; achaete-scute complex homolog 1 (Drosophila); achaete-scute homolog 1; ASH-1; mASH-1; mammalian achaete scute homolog 1; achaete-scute complex homolog-like 1; ASH1; Mash1; bHLHa46; AI225900
Gene ID	17172
mRNA Refseq	NM_008553
Protein Refseq	NP_032579
UniProt ID	Q02067

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