Recombinant Human ASCL1

Cat. No. ASCL1-28522TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 137-236 of Human MASH1/Achaete-scute homolog 1 with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the basic helix-loop-helix (BHLH) family of transcription factors. The protein activates transcription by binding to the E box (5-CANNTG-3). Dimerization with other BHLH proteins is required for efficient DNA binding. This protein plays a role in the neuronal commitment and differentiation and in the generation of olfactory and autonomic neurons. Mutations in this gene may contribute to the congenital central hypoventilation syndrome (CCHS) phenotype in rare cases.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GFATLREHVPNGAANKKMSKVETLRSAVEYIRALQQLLDEHDAVSAAFQAGVLSPTI SPNYSNDLNSMAGSPVSSYSSDEGSYDPLSPEEQELLDFTNWF
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.

GENE INFORMATION

Gene Name	ASCL1 achaete-scute complex homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	ASCL1
Synonyms	ASCL1; achaete-scute complex homolog 1 (Drosophila); achaete scute complex (Drosophila) homolog like 1 , achaete scute complex like 1 (Drosophila); achaete-scute homolog 1; ASH1; bHLHa46; HASH1;
Gene ID	429
mRNA Refseq	NM_004316
Protein Refseq	NP_004307
MIM	100790
Uniprot ID	P50553
Chromosome Location	12q22-q23

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Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem;
Function	DNA binding; E-box binding; bHLH transcription factor binding; double-stranded DNA binding; protein binding;

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