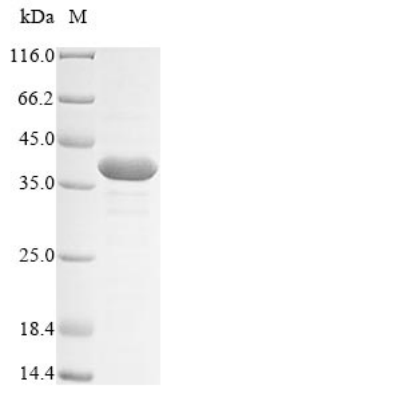
Recombinant Mouse Achaete-scute homolog 2 (Ascl2)

Product Code	CSB-EP002200MO
Relevance	AS-C proteins are involved in the determination of the neuronal precursors in the peripheral nervous system and the central nervous system.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O35885
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MEAHLDWYGVPGLQEASDACPRESCSSALPEAREGANVHFPPHPVPREHFS CAAPELVAGAQGLNASLMDGGALPRLMPTSSGVAGACAARRRQASPELLRC SRRRRSGATEASSSSAAVARRNERERNRVKLVNLGFQALRQHVPHGGANKK LSKVETLRSAVEYIRALQRLLAEHDAVRAALAGGLLTPATPPSDECAQPSASPA SASLSCASTSPSPDRLGCSEPTSPRSAYSSEESSCEGELSPMEQELLDFSSW LGGY
Lead Time	3-7 business days
Research Area	Developmental Biology
Source	E.coli
Gene Names	Ascl2
Protein Names	Mash2
Expression Region	1-263aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	32.8 kDa
Protein Description	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This recombinant Mouse Ascl2 protein is typically achieved by the manipulation of Ascl2 gene expression in E.coli cells so that it expresses large amounts of a recombinant Ascl2 gene. In order to get enough amount of the Ascl2 protein, strain selection, codon optimization, fusion systems, co-expression, mutagenesis, and isotope labeling techniques are used. Finally, the Ascl2 protein is isolated from the samples such as cell lysates or medium. Protein refolding, cleavage of fusion moieties and chromatography techniques are involved in the protein purification process.

Ascl2, a basic helix-loop-helix (bHLH) transcription factor, is required for diploid multipotent trophoblast progenitors, intestinal stem cells, follicular T-helper cells, as well as during epidermal development and myogenesis. It is expressed in neuronal precursors. Ascl2 is a downstream target of the Wnt signaling pathway and also a cancer stem cell marker. Ascl2 has been reported to promote cell proliferation and migration in colon cancer and contribute to epithelial-mesenchymal transition (EMT) and promote metastasis in gastric cancer (GC).

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.