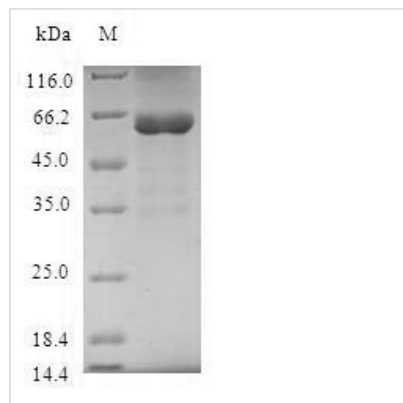




Recombinant Human Syntaxin-11 (STX11)

Product Code	CSB-EP022889HU
Relevance	SNARE that acts to regulate protein transport between late endosomes and the trans-Golgi network.
Abbreviation	Recombinant Human STX11 protein
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.	O75558
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKDRLAELLDSLKQYDQQFPDGDDEFDSPHEDIVFETDHILESLYRDIRDIQDE NQLLVADV KRLGKQNA RFLTSMRRLSSIKRDTNSIAKAIKARGEVIHCKLRAMK ELSEAAEAQHGPSAVARISRAQYNALTLTFQRAMHDYNQAEMKQRDNCKIRI QRQLEIMGKEVSGDQIEDMFEQGKWDVFSENLLADVKGARAAALNEIESRHRE LLRLESRI RDVHELFLQMAVLVEKQADTLNVIELNVQKTVDYTGQAKAQVRKAV QYEEKNPCRTLCCFCCPCLK
Research Area	Tags & Cell Markers
Source	E.coli
Target Names	STX11
Protein Names	Recommended name: Syntaxin-11
Expression Region	1-287aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	60.2kDa
Protein Length	Full Length
Image	



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

Description

The region for expressing recombinant Human STX11 contains amino acids 1-287. The expected molecular weight for the STX11 protein is calculated to be 60.2 kDa. This protein is generated in a e.coli-based system. The STX11 coding gene included the N-terminal GST tag, which simplifies the detection and purification processes of the recombinant STX11 protein in following stages of expression and purification.

Syntaxin-11 (STX11) is a member of the syntaxin family of proteins, which are involved in vesicle trafficking and membrane fusion events within cells. STX11 is specifically implicated in regulating the fusion of vesicles with lysosomes, playing a crucial role in the process of lysosomal exocytosis. This protein is predominantly expressed in hematopoietic cells, including NK cells and CTLs, where it is involved in the release of cytotoxic granules containing perforin and granzymes. The interaction between STX11 and Munc18-2, another protein involved in vesicle trafficking, is essential for proper vesicle fusion and cytotoxic granule release. Mutations in the STX11 gene are associated with familial hemophagocytic lymphohistiocytosis type 4 (FHL4), a rare and severe immune disorder characterized by uncontrolled activation of immune cells. Understanding the functions of STX11 is crucial for unraveling the molecular mechanisms underlying vesicle trafficking and immune responses in specific cell types.

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.

Shelf Life

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