



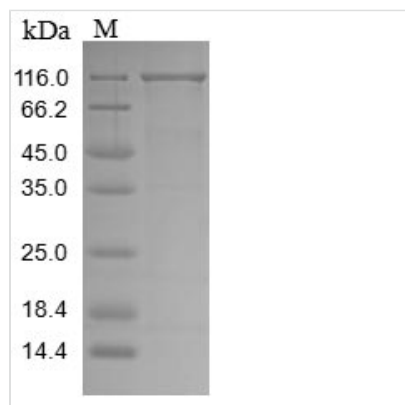
Recombinant Human Vacuolar protein sorting-associated protein 35 (VPS35)

Product Code	CSB-BP839401HUd8
Relevance	Acts as component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The CSC seems to associate with the cytoplasmic domain of cargo proteins predominantly via VPS35; however, these interactions seem to be of low affinity and retromer SNX proteins may also contribute to cargo selectivity thus questioning the classical function of the CSC. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5 (Probable). Required for retrograde transport of lysosomal enzyme receptor IGF2R and SLC11A2. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Required for endosomal localization of WASHC2C. Mediates the association of the CSC with the WASH complex via WASHC2. Required for the endosomal localization of TBC1D5
Abbreviation	Recombinant Human VPS35 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.	Q96QK1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MPTTQQSPQDEQEKLLEDAIQAVKVSFQMKRCLDKNKLM DALKHASNMLGE LRTSMLSPKSYLYMAISDELHYLEVYLTDEFKGRKVADLYELVQYAGNIIPR LYLLITVGVVYVKSFPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNLPL DEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRERER QELRILVGTNLVRLSQLEGVNVRYKQIVLTGILEQV VNCRDALAQEYLMECIIQ VFPDEFHLQTLNPFRLRACAELHQNVNKNIIIALIDRLALFAHREDGPGIPADIKL FDIFSQQVATVIQSRQDMPSEDVVSLSLQVSLINLAMKCY PDRVDYVDKVLTTVE IFNKLNL EHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKHFHPLFEYFDYESRK SMSCYVLSNVLDYNT EIVSQDQVDSIMNLVSTLIQDQPDQPDPEDFADE QSLVGRFIHLLRSEDPDQY LILNTARKHFGAGGNQRIRFTLPPLVFAAYQLAF



RYKENSKVDDKWEKKCQKIFSFAHQTISALIKAELAELPLRLFLQGALAAGEIGF
 ENHETVAYEFMSQAFSLYEDEISDSKAQLAAITLIIGTFERMKCFSEENHEPLRT
 QCALAASKLLKPKDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECLKK
 ALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLE
 SSEETEIQINKHFHNTLEHLRLRRESPESSEGPYIEGLIL

Research Area	Signal Transduction
Source	Baculovirus
Target Names	VPS35
Protein Names	Maternal-embryonic 3 Vesicle protein sorting 35 MEM3
Expression Region	1-796aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal MBP-tagged and C-terminal 6xHis-tagged
Mol. Weight	135.7 kDa
Protein Length	Full Length

Image


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

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 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.