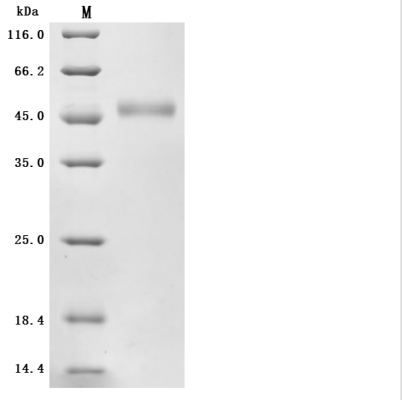
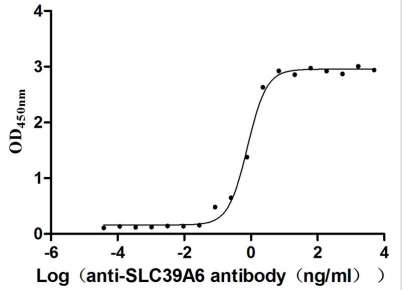
Recombinant Human Zinc transporter ZIP6 (SLC39A6), partial (Active)

Product Code	CSB-BP621669HU1
Abbreviation	Recombinant Human SLC39A6 protein, partial (Active)
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.	Q13433
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human SLC39A6 at 1 μg/mL can bind Anti- SLC39A6 recombinant antibody (CSB-RA621669MA1HU), the EC50 is 0.6873-0.9010 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	FPQTTEKISPNWESGINVDLAISTRQYHLQQLFYRYGENNSLSVEGFRKLLQNI GIDKIKRIHIHHDHDHHSDHEHHSDHERHSDHEHHSEHEHHSDHDHHSHHNH AASGKNKRKALCPDHDSDSSGKDPRNSQGKGAHRPEHASGRRNVKDSVSAS EVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSRVSRLAGRK TNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNYLC PAIINQIDARSCLIHTSEKKAEIPPKTYSLQIAW
Source	Baculovirus
Target Names	SLC39A6
Expression Region	29-325aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	35.0 kDa
Protein Length	Partial
Image	



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



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human SLC39A6 at 1 μg/ml can bind Anti-SLC39A6 recombinant antibody (CSB-RA621669MA1HU), the EC_{50} is 0.6873-0.9010 ng/mL.

Description

This Human ZIP6 (SLC39A6, LIV-1) recombinant protein was produced in Baculovirus, where the gene sequence encoding Human ZIP6 (29-325aa) was expressed with the C-6xHis tag. The purity of this ZIP6 protein was greater than 95%. The activity was validated.

The SLC39A6 gene was originally discovered in human breast cancer cell lines, and it was later shown that SLC39A6 belongs to a member of the zinc transporter subfamily. The main function of SLC39A6 is to transport zinc ions from the extracellular to the cytoplasmic matrix to increase the level of zinc ions in the matrix and maintain the homeostasis of intracellular zinc ions. Another study reported that SLC39A6 can also be involved in embryonic development and the epithelial-to-mesenchymal transition (EMT) involved in tumor migration, suggesting that SLC39A6 is closely related to the transmembrane transport of zinc ions in addition to In addition, it may also be closely related to the progression of many other diseases such as tumors.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

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.