# **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 206-630aa

**UniProt No.** P08195

NCBI Accession No. NP\_002385

## **Alternative Names**

4F2 cell-surface antigen heavy chain isoform c, SLC3A2, 4F2, 4F2HC, 4T2HC, CD98, CD98HC, MDU1, NACAE

# **PRODUCT SPECIFICATION**

**Molecular Weight** 47.9 kDa (434aa)

**Concentration** 0.5mg/ml (determined by absorbance at 280nm)

#### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### Purity

> 95% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

SLC3A2, also known as 4F2 cell-surface antigen heavy chain isoform c, is a single-pass type I I membrane protein which belongs to the SLC3A transporter family. It is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. This protein is required for the function of light chain amino-acid transporters and also involved in sodium-independent, high-affinity



transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. This protein involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. Recombinant human SLC3A2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

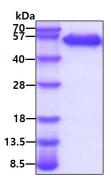
<ADP>RAPRCRE LPAQKWWHTG ALYRIGDLQA FQGHGAGNLA GLKGRLDYLS SLKVKGLVLG PIHKNQKDDV AQTDLLQIDP NFGSKEDFDS LLQSAKKKSI RVILDLTPNY RGENSWFSTQ VDTVATKVKD ALEFWLQAGV DGFQVRDIEN LKDASSFLAE WQNITKGFSE DRLLIAGTNS SDLQQILSLL ESNKDLLLTS SYLSDSGSTG EHTKSLVTQY LNATGNRWCS WSLSQARLLT SFLPAQLLRL YQLMLFTLPG TPVFSYGDEI GLDAAALPGQ PMEAPVMLWD ESSFPDIPGA VSANMTVKGQ SEDPGSLLSL FRRLSDQRSK ERSLLHGDFH AFSAGPGLFS YIRHWDQNER FLVVLNFGDV GLSAGLQASD LPASASLPAK ADLLLSTQPG REEGSPLELE RLKLEPHEGL LLRFPYAA<HH HHHH>

### **General References**

Mastroberardino L., et al. (1998) Nature. 395:288-291. Fort J., et al. (2007) J Biol Chem. 282:31444-31452.

# DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.