

## Recombinant Human SLC3A2 Protein, His-tagged

**Cat. No.** SLC3A2-175H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human SLC3A2 protein with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 47.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MELQPPEASIAVVSIPRQLPGSHSEAGVQGLSAGDDSELGSHCVAQTGLELLASGD<br>PLPSASQNAEMIETGSDCVTQAGLQLLASSDPPALASKNAEVTGTMSQDTEVDMKE<br>VELNELEPEKQPMNAASGAAMSLAGAELKNGLVKIKVAEDEAEAAAAAKFTGLSKEEL<br>LKVAGSPGWVVRTRWALLLLFWLGLWMLAGAVVIIVRAPRCRELPAQKWWHTGAL<br>YRIGDLQAFQGHGAGNLAGLKGRLDYLSLKVKGVLVGLPIHKNQKDDVAQTDLLQID<br>PNFGSKEDFDSLLQSAKKKSIRVILDLTPTYRGNSWFSSTQVDTVATKVKDALEFWL                                                                                                 |

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QAGVDGFQVRDIENLKDASSFLAEWQNITKGFSEDRLLIAGTNSSDLQQILSLLESNK  
 DLLLTSSYLSDSGSTGEHTKSLVTQYLNATGNRWCSWSLSQARLLTSFLPAQLRLY  
 QLMLFTLPGTPVFSYGDEIGLDAAALPGQPMEAPVMLWDESSFPDIPGAVSANMTV  
 KGQSEDPGSLLSLFRRLSDQRSKERSLLHGDFHAFSAGPGLFSYIRHWDQNERFLV  
 VLNFGDVGLSAGLQASDLPASASLPKADLLLSTQPGREEGSPLELERLKLEPHEGL  
 LLRFPYAA

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** SLC3A2 solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 [ Homo sapiens (human) ]

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | <b>SLC3A2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | SLC3A2; solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2; MDU1; 4F2 cell-surface antigen heavy chain; 4F2; 4F2 cell surface antigen heavy chain; 4F2 heavy chain; 4F2HC; 4T2HC; antigen defined by monoclonal 4F2; antigen identified by monoclonal antibodies 4F2; TRA1.10; TROP4; and T43; CD98; CD98 heavy chain; CD98HC; heavy chain; lymphocyte activation antigen 4F2 large subunit; monoclonal 44D7; NACAE; antigen defined by monoclonal 4F2, heavy chain; antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43; |
| <b>Gene ID</b>         | <b>6520</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | <b>NM_001012662</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | <b>NP_001012680</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>             | <b>158070</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>      | <b>P08195</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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