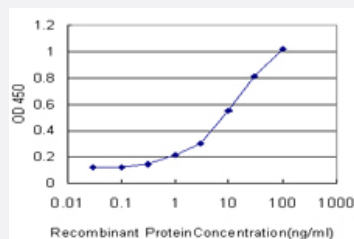


# SLC1A2 monoclonal antibody (M10), clone 4G8

Catalog # H00006506-M10

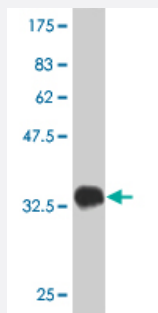
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SLC1A2 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (34.54 KDa) .

## Specification

|                            |                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against a partial recombinant SLC1A2.                                              |
| <b>Immunogen</b>           | SLC1A2 (NP_004162, 160 a.a. ~ 239 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>            | DEVSSLD AFLDLIRNLPENLVQACFQQIQTVTKKVLVAPPPDEEANATSAVV SLLNETVTEVP EETKMVIKKGLEFKDG                                  |
| <b>Host</b>                | Mouse                                                                                                               |
| <b>Reactivity</b>          | Human                                                                                                               |

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Interspecies Antigen Sequence | Mouse (88); Rat (89)                                                                                     |
| Isotype                       | IgG2a Kappa                                                                                              |
| Quality Control Testing       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (34.54 KDa) . |
| Storage Buffer                | In 1x PBS, pH 7.4                                                                                        |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                 |

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SLC1A2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — SLC1A2

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">6506</a>                                                          |
| GeneBank Accession# | <a href="#">NM_004171</a>                                                     |
| Protein Accession#  | <a href="#">NP_004162</a>                                                     |
| Gene Name           | SLC1A2                                                                        |
| Gene Alias          | EAAT2, GLT-1                                                                  |
| Gene Description    | solute carrier family 1 (glial high affinity glutamate transporter), member 2 |
| Omim ID             | <a href="#">600300</a>                                                        |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                     |

**Gene Summary**

This gene encodes a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extra cellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Mutations in and decreased expression of this protein are associated with amyotrophic lateral sclerosis. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq]

**Other Designations**

excitatory amino acid transporter 2|excitotoxic amino acid transporter 2|glial high affinity glutamate transporter|glutamate/aspartate transporter II|sodium-dependent glutamate/aspartate transporter 2|solute carrier family 1, member 2

## Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)

## Disease

- [Alcoholism](#)
- [Child Development Disorders](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Personality Tests](#)
- [Postmortem Changes](#)
- [Reward](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)