# Data Sheet (Cat.No.TMAH-01098)

## Anti-SLC1A2 Antibody (9S258)

### Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 9S258 |
| Purification: | Affinity-chromatography |

### Applications

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| Verified Activity: | 1. Western Blot<br>-Positive WB detected in: U251 whole cell lysate<br>-All lanes: EAAT2 antibody at 1:1000<br>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution<br>-Predicted band size: 62 kDa<br>-Observed band size: 62 kDa<br>2. Overlay Peak curve showing MCF-7 cells surface stained with TMAH-01098 (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10^6 cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C.Control antibody (green line) was rabbit IgG (1μg/1*10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed. |
| Application: | ELISA, WB, FCM |
| Recommended | WB:1:500-1:2000; FCM:1:50-1:200. |

### Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | A synthetic peptide: Human SLC1A2 |
| Antigen Species: | Human |
| Gene ID: | 6506 |
| Uniprot ID: | P43004 |
| Synonyms: | Glutamate/aspartate transporter II;Solute carrier family 1 member 2;Excitatory amino acid transporter 2;Sodium-dependent glutamate/aspartate transporter 2;EAAT2;GLT1 |
| Biology Area: | Neuroscience, Metabolism, Signal transduction |

### Research Background

Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate. Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion. Mediates Cl(-) flux that is not

coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport. Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate.



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