10320 Camino Santa Fe, Suite G
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Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody

Catalog # ABO13795

Specification

Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IP**
Primary Accession	P43004
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody - Additional Information

Gene ID 6506

Other Names
Excitatory amino acid transporter 2, Glutamate/aspartate transporter II, Sodium-dependent glutamate/aspartate transporter 2, Solute carrier family 1 member 2, SLC1A2 (HGNC:10940)

Calculated MW
62104 MW KDa

Application Details
WB 1:500-1:2000
IP 1:50

Subcellular Localization
Membrane; Multi-pass membrane protein.

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human EAAT2

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody - Protein Information

Name SLC1A2 (HGNC:10940)

Function
Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:14506254, PubMed:15265858, PubMed:26690923, PubMed:7521911). 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 (PubMed:14506254). Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (PubMed:14506254). Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-EAAT2/GLT-1/SLC1A2 Rabbit Monoclonal Antibody - Images

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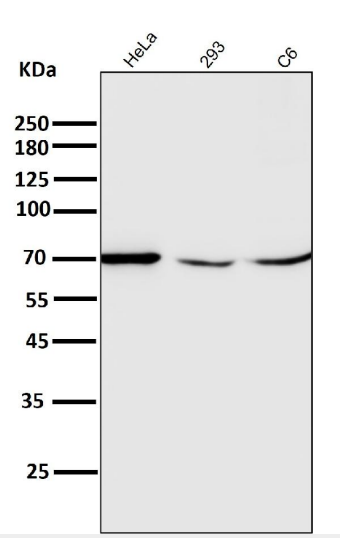
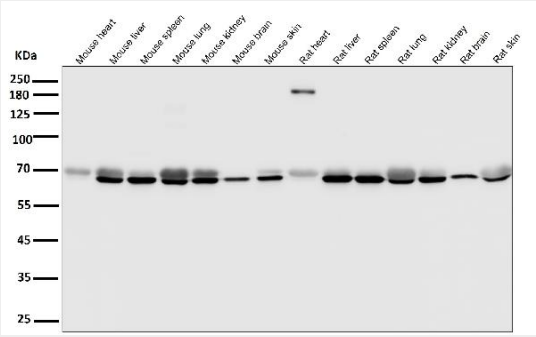


All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



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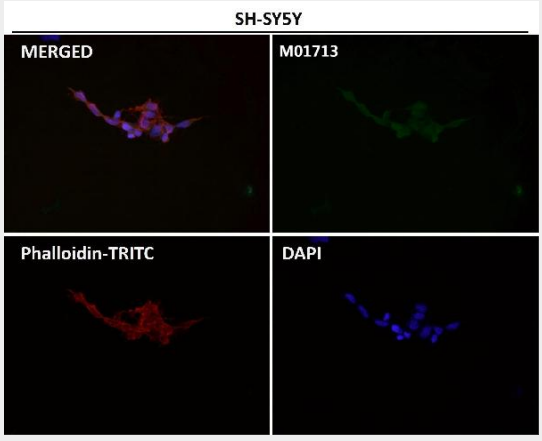

Immunofluorescent analysis using the Antibody at 1:50 dilution.

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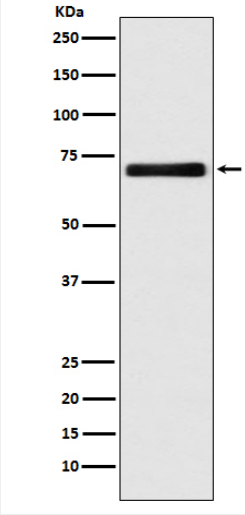

Western blot analysis of EAAT2 expression in HeLa cell lysate.