

DATASHEET

EAAT2 Rabbit Polyclonal Antibody

CAT. NO. APA11588

KEY FEATURES

| | | | |
|---------------|-----------------------------------------------------------------------------------------------------------|---------------|---------------------|
| Target | EAAT2 | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat | Clonality | Polyclonal |
| Applications | WB, IF/ICC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | | Storage at -20°C |

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.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|--------|----------------|
| WB | 1:500 - 1:1000 |
| IF/ICC | 1:50 - 1:200 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Rabbit polyclonal antibody to EAAT2 |
| Specificity | Recognizes endogenous levels of EAAT2 protein. |
| Antibody Type | Primary antibody |
| Immunogen | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human EAAT2. The exact sequence is proprietary. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 62 kD; Observed: 70 kD |
| Form/Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | EAAT2; GLT1; Excitatory amino acid transporter 2; Glutamate/aspartate transporter II; Sodium-dependent glutamate/aspartate transporter 2; Solute carrier family 1 member 2 |
| Gene Symbol | SLC1A2 |
| Entrez Gene | 6506(Human); 20511(Mouse); 29482(Rat) |
| SwissProt | P43004(Human); P43006(Mouse); P31596(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

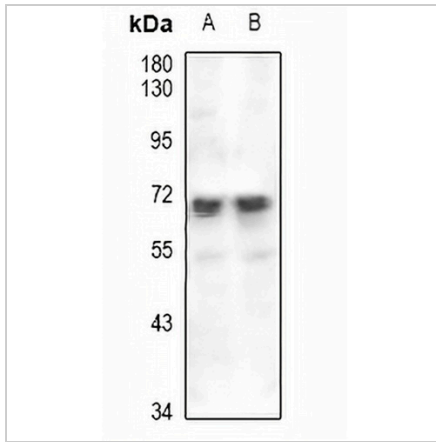
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

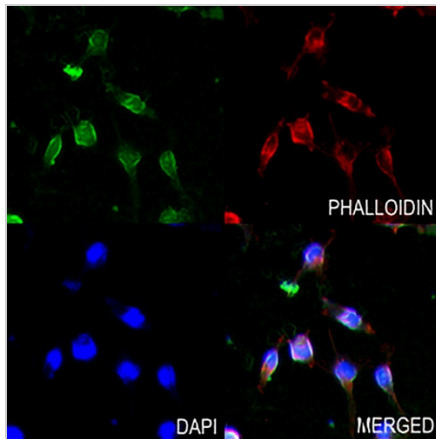
EAT2 Rabbit Polyclonal Antibody

CAT. NO. APA11588

DATA



Western blot analysis of EAT2 expression in rat brain (A), mouse brain (B) whole cell lysates. (Predicted band size: 62 kD; Observed band size: 70 kD)



Immunofluorescent analysis of EAT2 staining in PC3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.