Data Sheet (Cat.No.TMAC-01213)

Anti-EAAT3 Antibody (2S513)

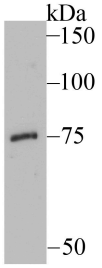
Product Details

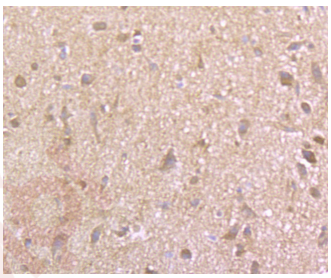
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 57 kDa.
Clone:	2S513
Purification:	ProA affinity purified

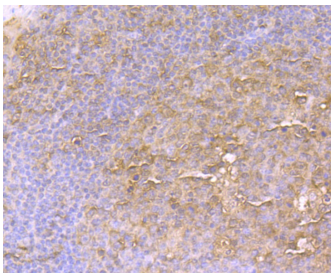
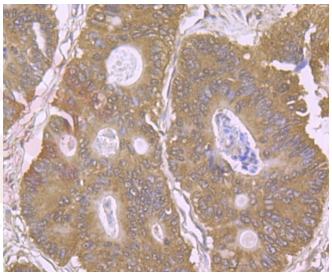
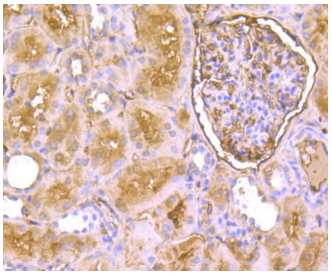
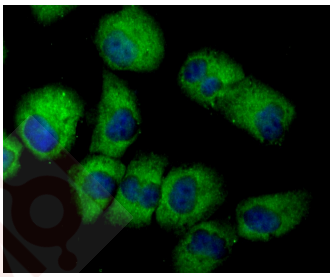
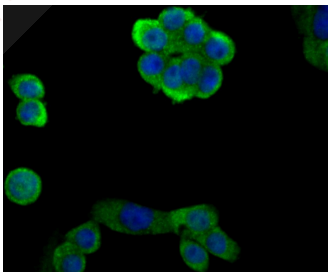
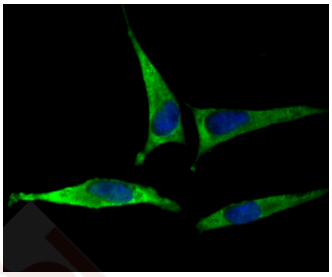
Applications

Verified Activity:

1. Western blot analysis of EAAT3 on mouse liver tissue lysate using anti-EAAT3 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-EAAT3 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-EAAT3 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-EAAT3 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-EAAT3 antibody. Counter stained with hematoxylin.
6. ICC staining EAAT3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining EAAT3 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining EAAT3 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC,IF,IHC,WB

Recommended WB: 1:500; IHC: 1:50-200; ICC:IF: 1:50-200

Properties

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

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P43005

Synonyms: REAAC 1;Slc1a 1;Excitatory amino acid carrier1;MEAAC 1;Excitatory amino acid transporter3; SLC1A1;SOLUTE CARRIER FAMILY 1 (NEURONAL/EPITHELIAL HIGH AFFINITY GLUTAMATE TRANSPORTER), MEMBER 1;Neuronal and epithelial glutamate transporter;GLUTAMATE TRANSPORTER, HIGH-AFFINITY;Excitatory amino acid transporter 3;Solute carrier family 1 (neuronal / epithelial high affinity glutamate transporter, system Xag), member 1;Solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1;EAAC 1;Excitatory amino acid carrier 1;MEAAC1;EAAT 3;Excitatory amino-acid carrier 1;Solute carrier family 1, member 1;REAAC1;Sodium dependent glutamate/aspartate transporter 3;Slc1 a1; Sodium-dependent glutamate/aspartate transporter 3;Solute carrier family 1 member 1; EAAC1;EAA3_HUMAN

Research Background

Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate. Can also transport L-cysteine. 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. Plays an important role in L-glutamate and L-aspartate reabsorption in renal tubuli. Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate. Negatively regulated by ARL6IP5.