



Anti-EAAT2 Antibody

Alternative Names: EAAT2, GLT-1, SLC1A2, Glutamate/aspartate transporter II, Sodium-dependent glutamate/aspartate transporter 2, Solute carrier family 1 member 2, Excitatory amino acid transporter 2

Catalogue Number: AB19-10103-50ug

Size: 50 µg

Background Information

Excitatory amino acid transporter 2 (EAAT2/SLC1A2) is a membrane-bound protein expressed primarily on astrocytes that clears the excitatory neurotransmitter glutamate from the extracellular 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. Impaired glutamate uptake by dysfunction or reduced expression of EAAT2 can lead to excitotoxicity, which has been implicated in the pathogenesis of neurodegenerative diseases, including Alzheimer's disease, Huntington's disease and amyotrophic lateral sclerosis. Increased astrocytic EAAT2 expression appears to afford greater neuroprotection under excitotoxic conditions.

Product Information

Antibody Type:	Polyclonal	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Mouse, Rat
Immunogen:	A synthetic peptide from the C-terminal region of human SLC1A2		
Format:	50 µg in 50 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20°C. Avoid freeze / thaw cycles.		
Applications:	IHC IHC 1:25-100.		

Additional Information

Subcellular location:	Cell membrane	MW:	62kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	6506	Uniprot ID:	P43004