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Anti-EAAT1 Rabbit mAb [19D38]

Catalog No.: A52104

Basic Information

Catalog No. (Cat.No.)	A52104
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	EaaT1,EAAT1,GLAST,excitatory amino acid transporter 1

Product Information

Target	EAAT1
Molecular Weight(Calculated)	60 kDa
Molecular Weight(Observed)	59 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	19D38
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:2000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Excitatory amino-acid transporter-1
Gene Name	*SLC1A3*
Domain	NA
Background	E aaT1 (Excitatory Amino Acid Transporter 1) is a transmembrane transporter protein belonging to the SLC1 glutamate transporter family, encoded by the SLC1A3 gene, and serves as a key regulator of glutamate homeostasis in the central nervous system (CNS). Highly and specifically expressed on the plasma membrane of astrocytes, E aaT1 efficiently uptakes extracellular glutamate, precisely controls glutamate concentration in synaptic clefts, prevents excitotoxicity induced by excessive glutamate accumulation, and maintains stable neural signal transduction in the CNS. It also regulates intracellular and extracellular ion balance, neuronal survival and oxidative stress responses. Downregulated expression or dysfunction of E aaT1 leads to glutamate accumulation, neuroinflammation and neuronal apoptosis, closely associated with epilepsy, cerebral ischemic injury and neurodegenerative diseases.