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EAAT1 / GLAST1 (aa197-208) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3917a

Specification

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	P43003
Other Accession	NP_004163.3, NP_001160167.1, 6507, 29483 (rat)
Reactivity	**Human**
Predicted	**Rat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**59572**

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - Additional Information

Gene ID 6507

Other Names
Excitatory amino acid transporter 1, Sodium-dependent glutamate/aspartate transporter 1, GLAST-1, Solute carrier family 1 member 3, SLC1A3, EAAT1, GLAST, GLAST1

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
EAAT1 / GLAST1 (aa197-208) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - Protein Information

Name SLC1A3 (HGNC:10941)

Function
Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7521911, PubMed:8123008, PubMed:20477940, PubMed:<a

href="http://www.uniprot.org/citations/26690923" target="_blank">26690923, PubMed:28032905, PubMed:28424515). 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:20477940). 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:20477940). 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 (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

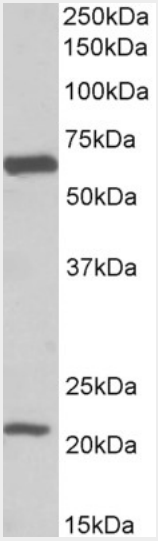
Tissue Location
Detected in brain (PubMed:8218410, PubMed:7521911, PubMed:8123008). Detected at very much lower levels in heart, lung, placenta and skeletal muscle (PubMed:7521911, PubMed:8123008). Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia (PubMed:7521911).

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - 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

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - Images



AF3917a (0.1 µg/ml) staining of Human Frontal Cortex lysate (35 µg protein in RIPA buffer).

Primary incubation was 1 hour. Detected by chemiluminescence.

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - Background

This antibody is expected to recognize isoform 1 (NP_004163.3) and isoform 2 (NP_001160167.1).

EAAT1 / GLAST1 (aa197-208) Antibody (internal region) - References

Water and urea permeation pathways of the human excitatory amino acid transporter EAAT1. Vandenberg RJ, Handford CA, Campbell EM, Ryan RM, Yool AJ. Biochem J. 2011 Oct 15;439(2):333-40. PMID: 21732909