

EAAT1 (1-50): sc-4509 WB

BACKGROUND

Excitatory Amino Acid Transporters (EAATs) are membrane-bound proteins that are localized in glial cells and pre-synaptic glutamatergic nerve endings. EAATs transport the excitatory neurotransmitters L-glutamate and D-aspartate, a process that is essential for terminating the postsynaptic action of glutamate. The reuptake of amino acid neurotransmitters by EAAT proteins has been shown to protect neurons from excitotoxicity, which is caused by the accumulation of amino acid neurotransmitters. Three glutamate transporters have been identified in human brain, designated EAAT1-3. EAAT1 and EAAT3 are also expressed in various non-nervous tissues, while EAAT2 expression appears to be restricted to the brain.

REFERENCES

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STORAGE

Store at -20° C; stable for one year from the date of shipment.

SOURCE

EAAT1 (1-50) is expressed in *E. coli* as a 32 kDa tagged fusion protein corresponding to amino acids 1-50 of EAAT1 of human origin

PRODUCT

EAAT1 (1-50) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

EAAT1 (1-50) is suitable as a Western blotting control for sc-7758 and sc-15316.

RESEARCH USE

For research use only, not for use in diagnostic procedures.