

AAA1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5508b**Specification**

AAA1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O9NS82](#)
Other Accession [NP_062823.1](#)

AAA1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 56301

Other Names

Asc-type amino acid transporter 1, Asc-1, Solute carrier family 7 member 10, SLC7A10, ASC1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AAA1 Antibody (C-term) Blocking peptide - Protein Information

Name SLC7A10

Synonyms ASC1

Function

Associates with SLC3A2/4F2hc to form a functional heterodimeric complex that translocates small neutral L- and D-amino acids across the plasma membrane. Preferentially mediates exchange transport, but can also operate via facilitated diffusion (By similarity) (PubMed:10863037). Acts as a major transporter for glycine, L- and D-serine in the central nervous system. At the spinal cord and brainstem regulates glycine metabolism and glycinergic inhibitory neurotransmission by providing for glycine de novo synthesis from L- serine and glycine recycling from astrocytes to glycinergic motor neurons (By similarity). At Schaffer collateral-CA1 synapses mediates D-serine and glycine release that modulates post-synaptic activation of NMDA receptors and excitatory glutamatergic transmission (By similarity). May regulate D-serine release from mesenchymal progenitors located in developing subcutaneous adipose tissue, favoring white adipocyte over thermogenic beige adipocyte lineage commitment (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P63115}; Multi-pass membrane protein.

Note=Colocalizes with OLIG2 in astrocytic processes. Localizes to the plasma membrane in mature adipocytes and to intracellular structures in preadipocytes {ECO:0000250|UniProtKB:P63115}

Tissue Location

Expressed in brain, heart, kidney, liver, lung, pancreas, placenta, and skeletal muscle.

AAA1 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

AAA1 Antibody (C-term) Blocking peptide - Images