
Product Name: SNAT2 Rabbit Polyclonal Antibody**Catalog #: APRab18051**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
Molecular Weight	50kDa

Antigen Information

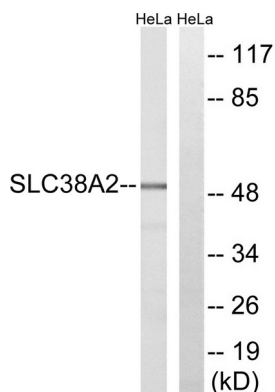
Gene Name	SLC38A2 SLC38A2; ATA2; KIAA1382; SAT2; SNAT2; Sodium-coupled neutral amino acid transporter 2;
Alternative Names	Amino acid transporter A2; Protein 40-9-1; Solute carrier family 38 member 2; System A amino acid transporter 2; System A transporter 1; System N amino a
Gene ID	54407.0
SwissProt ID	Q96QD8
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC38A2. AA range:151-200

Background

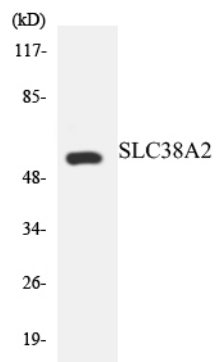
enzyme regulation:Inhibited by N-methyl-D-glucamine and probably choline.,function:Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of neutral amino acids and sodium ions with a stoichiometry of 1:1. May function in the transport of amino acids at the blood-brain barrier and in the supply of maternal nutrients to the fetus through the placenta.,induction:Up-regulated upon hypertonic conditions and amino acid deprivation.,miscellaneous:Depletion of SCL38A2 by siRNA prevents the recovery of cells from hypertonic stress.,PTM:Polyubiquitination by NEDD4L regulates the degradation and the activity of SLC38A2.,similarity:Belongs to the amino acid/polyamine transporter 2 family.,subcellular location:Insulin promotes recruitment to the plasma membrane from a pool localized in the trans-Golgi network or endosomes (By similarity). Enriched in the somatodendritic compartment of neurons, it is also detected at the axonal shaft but excluded from the nerve terminal.,tissue specificity:Ubiquitously expressed. Widely expressed in the central nervous system with higher concentrations in caudal regions. Expressed by glutamatergic and GABAergic neurons together with astrocytes and other non-neuronal cells in the cerebral cortex (at protein level),enzyme regulation:Inhibited by N-methyl-D-glucamine and probably choline.,function:Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of neutral amino acids and sodium ions with a stoichiometry of 1:1. May function in the transport of amino acids at the blood-brain barrier and in the supply of maternal nutrients to the fetus through the placenta.,induction:Up-regulated upon hypertonic conditions and amino acid deprivation.,miscellaneous:Depletion of SCL38A2 by siRNA prevents the recovery of cells from hypertonic stress.,PTM:Polyubiquitination by NEDD4L regulates the degradation and the activity of SLC38A2.,similarity:Belongs to the amino acid/polyamine transporter 2 family.,subcellular location:Insulin promotes recruitment to the plasma membrane from a pool localized in the trans-Golgi network or endosomes (By similarity). Enriched in the somatodendritic compartment of neurons, it is also detected at the axonal shaft but excluded from the nerve terminal.,tissue specificity:Ubiquitously expressed. Widely expressed in the central nervous system with higher concentrations in caudal regions. Expressed by glutamatergic and GABAergic neurons together with astrocytes and other non-neuronal cells in the cerebral cortex (at protein level),

Research Area

Image Data



Western blot analysis of lysates from HeLa cells, using SLC38A2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using SLC38A2 antibody.