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|--------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | SNAT2 Rabbit Polyclonal Antibody                                                                    |
| <b>Cat number:</b>       | ABN18051                                                                                            |
| <b>Conjugate:</b>        | Unconjugated                                                                                        |
| <b>Size:</b>             | 100µL                                                                                               |
| <b>Clone:</b>            | Polyclonal                                                                                          |
| <b>Concentration:</b>    | 1mg/ml                                                                                              |
| <b>Host:</b>             | Rabbit                                                                                              |
| <b>Isotype:</b>          | IgG                                                                                                 |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human SLC38A2. AA range:151-200 |
| <b>Reactivity:</b>       | Human,Rat,Mouse                                                                                     |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000                                                 |
| <b>Molecular Weight:</b> | 50kDa                                                                                               |
| <b>Purification:</b>     | Affinity purification                                                                               |
| <b>Form:</b>             | Liquid                                                                                              |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                  |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.        |

**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).,