SNAT2 Monoclonal Antibody

Catalog No	YP-mAb-00731
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	SLC38A2
Protein Name	Sodium-coupled neutral amino acid transporter 2
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC38A2. AA range:151-200
Specificity	SNAT2 Monoclonal Antibody detects endogenous levels of SNAT2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC38A2; ATA2; KIAA1382; SAT2; SNAT2; Sodium-coupled neutral amino acid transporter 2; 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
Observed Band	50kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . 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).
Function	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 similar
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matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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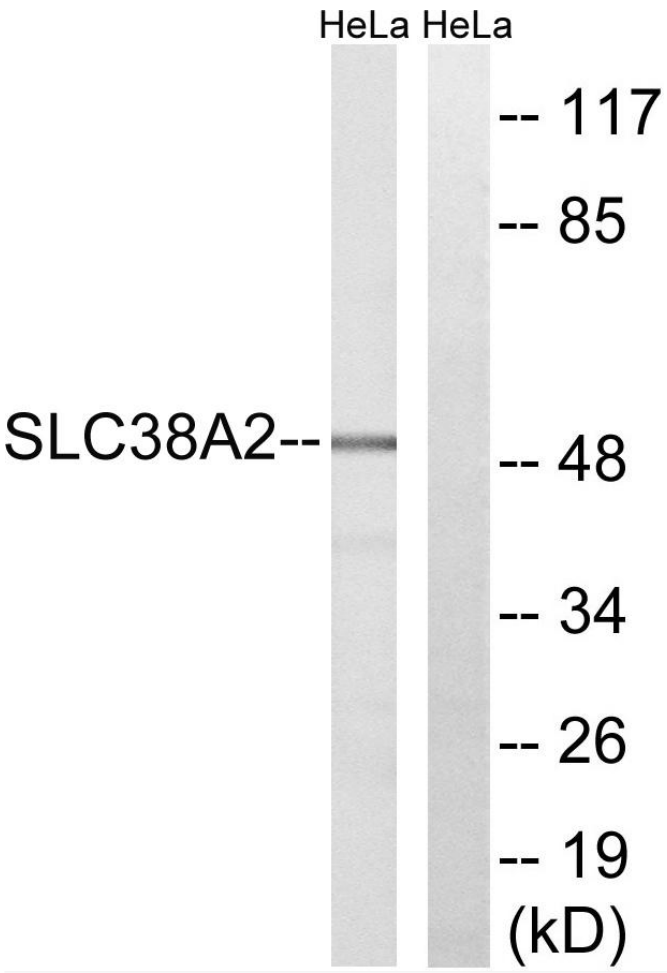

Western Blot analysis of various cells using SNAT2 Monoclonal Antibody