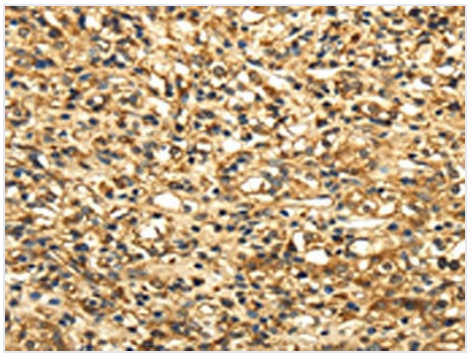
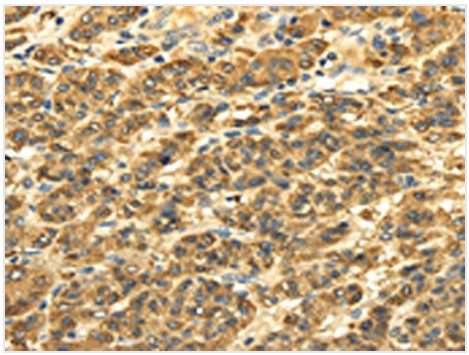
SLC6A19 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC6A19, Polyclonal Antibody
Full Product Name	SLC6A19 Antibody
Product Gene Name	anti-SLC6A19 antibody
Product Synonym Names	solute carrier family 6 (neutral amino acid Transporter); member 19
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	71,110 Da
OMIM	138500
3D Structure	ModBase 3D Structure for Q695T7
Immunogen	Synthetic peptide of human SLC6A19
Immunogen Species	Human
Conjugate	Non-conjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC6A19 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SLC6A19 antibody	ELISA: 1:2000-1:10000 IHC: 1:30-1:150
Related Product Information for anti-SLC6A19 antibody	MBS7129807 is an antibody targeting SLC6A19. Also known as SLC6A19 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SLC6A19 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-SLC6A19 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human prostate cancer tissue using MBS7129807(SLC6A19 Antibody) at dilution 1/35, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-SLC6A19 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using MBS7129807(SLC6A19 Antibody) at dilution 1/35, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC6A19. It may not necessarily be applicable to this product.

NCBI GI #	51468073
NCBI GeneID	340024
NCBI Accession #	NP_001003841.1
UniProt Primary Accession #	Q695T7
UniProt Secondary Accession #	A8K446
UniProt Related Accession #	Q695T7
GenBank Nucleotide #	NM_001003841.2
NCBI Official Full Name	sodium-dependent neutral amino acid transporter B(0)AT1
NCBI Official Synonym Full Names	solute carrier family 6 (neutral amino acid transporter), member 19
NCBI Official Symbol	SLC6A19
NCBI Official Synonym Symbols	HND; B0AT1
UniProt Protein Name	Sodium-dependent neutral amino acid transporter B(0)AT1
UniProt Synonym Protein Names	Solute carrier family 6 member 19; System B(0) neutral amino acid transporter AT1
Protein Family	Sodium-dependent neutral amino acid transporter
UniProt Gene Name	SLC6A19
UniProt Synonym Gene Names	B0AT1
UniProt Entry Name	S6A19_HUMAN
NCBI Protein Information	sodium-dependent neutral amino acid transporter B(0)AT1
NCBI Summary for SLC6A19	This gene encodes a system B(0) transmembrane protein that actively transports most neutral amino acids across the apical membrane of epithelial cells. Mutations in this gene result in Hartnup disorder. [provided by RefSeq, Jul 2008]

UniProt Comments for SLC6A19	SLC6A19: Transporter that mediates epithelial resorption of neutral amino acids across the apical membrane of epithelial cells in the kidney and intestine. It appears that leucine is the preferred substrate, but all large neutral non-aromatic L-amino acids bind to this transporter. Uptake of leucine is sodium- dependent. In contrast to other members of the neurotransmitter transporter family, does not appear to be chloride-dependent. Defects in SLC6A19 are a cause of Hartnup disorder (HND). HND is an autosomal recessive abnormality of renal and gastrointestinal neutral amino acid transport noted for its clinical variability. First described in 1956, HND is characterized by increases in the urinary and intestinal excretion of neutral amino acids. Individuals with typical Hartnup aminoaciduria may be asymptomatic, some develop a photosensitive pellagra-like rash, attacks of cerebellar ataxia and other neurological or psychiatric features. Although the definition of HND was originally based on clinical and biochemical abnormalities, its marked clinical heterogeneity has led to it being known as a disorder with a consistent pathognomonic neutral hyperaminoaciduria. Defects in SLC6A19 may be a cause of hyperglycinuria (HG). It is a condition characterized by excess of glycine in the urine. In some cases it is associated with renal colic and renal oxalate stones. SLC6A19 deficiency combined with haploinsufficiency of SLC6A20 or partially inactivating mutations in SLC36A2, can be responsible for hyperglycinuria. Defects in SLC6A19 may be a cause of iminoglycinuria (IG). It is a disorder of renal tubular reabsorption of glycine and imino acids (proline and hydroxyproline), marked by excessive levels of all three substances in the urine. SLC6A19 deficiency combined with haploinsufficiency of SLC6A20 or partially inactivating mutations in SLC36A2, can be responsible for iminoglycinuria. Additional polymorphisms and mutations in SLC6A18 can contribute to the IG phenotype in some families. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A19 subfamily. Protein type: Transporter; Membrane protein, multi-pass; Membrane protein, integral; Transporter, SLC family Chromosomal Location of Human Ortholog: 5p15.33 Cellular Component: brush border membrane; integral to plasma membrane; plasma membrane Molecular Function: neutral amino acid transmembrane transporter activity; neurotransmitter:sodium symporter activity Biological Process: neutral amino acid transport; neurotransmitter transport; amino acid transport; ion transport; transmembrane transport; response to nutrient Disease: Iminoglycinuria; Hyperglycinuria; Hartnup Disorder
Research Articles on SLC6A19	**1.** PKB/Akt up-regulates SLC6A19 activity, which may foster amino acid uptake into PKB/Akt-expressing epithelial and tumor cells.
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