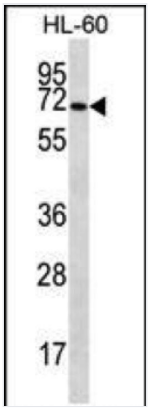
SLC6A14 Antibody – Rabbit Polyclonal

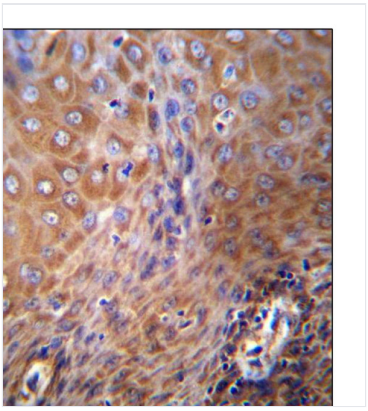
PRODUCT OVERVIEW

Product Name	SLC6A14, Polyclonal Antibody
Full Product Name	SLC6A14, CT (SLC6A14, Sodium-and chloride-dependent neutral and basic amino acid transporter B(0+), Amino acid transporter ATB0+, Solute carrier family 6 member 14) (FITC)
Product Gene Name	anti-SLC6A14 antibody
Product Synonym Names	SLC6A14; Sodium-and chloride-dependent neutral and basic amino acid transporter B(0+); Amino acid transporter ATB0+; Solute carrier family 6 member 14
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human SLC6A14.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	72,153 Da
Chromosome Location	Chromosome: X; NC_000023.10 (115567747..115592625). Location: Xq23
OMIM	300444
3D Structure	ModBase 3D Structure for Q9UN76
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids aa601-631 in the C-terminal region of human SLC6A14. Swiss/UniProt Accession: Q9UN76
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SLC6A14 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-SLC6A14 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB)
Application Notes for anti-SLC6A14 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SLC6A14 antibody	MBS6348520 is an antibody targeting SLC6A14. Also known as SLC6A14, CT (SLC6A14, Sodium-and chloride-dependent neutral and basic amino acid transporter B(0+), Amino acid transporter ATB0+, Solute carrier family 6 member 14) (FITC). Reactive in Human. Host: Rabbit.

Product References and Citations for anti-SLC6A14 antibody	1. Bailey, S.D., et al. Diabetes Care (2010) In press 2. Corpeleijn, E., et al. Obesity (Silver Spring) 18(7):1369-1377(2010). 3. Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). 4. Anderson, C.M., et al. J. Physiol. (Lond.) 586 (PT 17):4061-4067 (2008). 5. Eriksson, A., et al. BMC Gastroenterol 8:34 (2008).
Other Notes	Small volumes of anti-SLC6A14 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.



Western Blot (WB) of anti-SLC6A14 antibody
Western Blot analysis in HL-60 cell line lysates (35ug/lane) usingMBS643590. This demonstrates MBS643590 detected the SLC6A14 protein (arrow).



Immunohistochemistry (IHC) of anti-SLC6A14 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human esophageal carcinoma using MBS643960 followed by peroxidase conjugation of the secondary antibody and DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC6A14. It may not necessarily be applicable to this product.

NCBI GI #	6005715
NCBI GeneID	11254
NCBI Accession #	NP_009162.1
UniProt Primary Accession #	Q9UN76
UniProt Secondary Accession #	Q5H942
UniProt Related Accession #	Q9UN76
GenBank Nucleotide #	NM_007231.4
NCBI Official Full Name	sodium- and chloride-dependent neutral and basic amino acid transporter B(0+)
NCBI Official Synonym Full Names	solute carrier family 6 (amino acid transporter), member 14
NCBI Official Symbol	SLC6A14
NCBI Official Synonym Symbols	BMIQ11
UniProt Protein Name	Sodium- and chloride-dependent neutral and basic amino acid transporter B(0+)
UniProt Synonym Protein Names	Amino acid transporter ATB0+; Solute carrier family 6 member 14
Protein Family	Sodium- and chloride-dependent neutral and basic amino acid transporter
UniProt Gene Name	SLC6A14
UniProt Entry Name	S6A14_HUMAN
NCBI Protein Information	sodium- and chloride-dependent neutral and basic amino acid transporter B(0+); sodium- and chloride-dependent neutral and basic amino acid transporter B(0+); amino acid transporter B0+; amino acid transporter ATB0+; solute carrier family 6 (neurotransmitt

NCBI Summary for SLC6A14	This gene encodes a member of the solute carrier family 6. Members of this family are sodium and chloride dependent neurotransmitter transporters. The encoded protein transports both neutral and cationic amino acids. This protein may also function as a beta-alanine carrier. Mutations in this gene may be associated with X-linked obesity. A pseudogene of this gene is found on chromosome X.[provided by RefSeq, May 2010]
UniProt Comments for SLC6A14	SLC6A14: Mediates the uptake of a broad range of neutral and cationic amino acids (with the exception of proline) in a Na(+)/Cl(-)-dependent manner. Genetic variations in SLC6A14 may be associated with obesity in some populations, as shown by significant differences in allele frequencies between obese and non-obese individuals. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A14 subfamily. Protein type: Transporter; Transporter, SLC family; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: Xq23 Cellular Component: brush border membrane; integral to membrane; plasma membrane; vesicle Molecular Function: neurotransmitter:sodium symporter activity; amino acid transmembrane transporter activity Biological Process: amino acid metabolic process; amino acid transport; neurotransmitter transport; transport; response to toxin; ion transport; transmembrane transport Disease: Body Mass Index Quantitative Trait Locus 11
Research Articles on SLC6A14	**1.** Single nucleotide polymorphism in SLC6A14 gene is associated with cystic fibrosis.
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