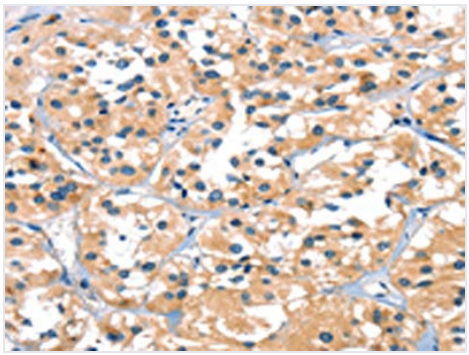
SLC6A4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC6A4, Polyclonal Antibody
Full Product Name	SLC6A4 Antibody
Product Gene Name	anti-SLC6A4 antibody
Product Synonym Names	solute carrier family 6 (NeuroTransmitter Transporter); member 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
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	70,325 Da
OMIM	103780
3D Structure	ModBase 3D Structure for P31645
Immunogen	Synthetic peptide of human SLC6A4
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-SLC6A4 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC6A4 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SLC6A4 antibody	ELISA: 1:1000-1:2000 IHC: 1:25-1:100
Related Product Information for anti-SLC6A4 antibody	MBS7128545 is an antibody targeting SLC6A4. Also known as SLC6A4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SLC6A4 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-SLC6A4 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using MBS7128545(SLC6A4 Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC6A4. It may not necessarily be applicable to this product.

NCBI GI #	300444
NCBI GeneID	6532
NCBI Accession #	AAB26687.1
UniProt Primary Accession #	P31645
UniProt Secondary Accession #	Q5EE02
UniProt Related Accession #	P31645; AAB26687
NCBI Official Full Name	serotonin transporter, serotonin uptake site, 5-HT uptake site
NCBI Official Synonym Full Names	solute carrier family 6 (neurotransmitter transporter), member 4
NCBI Official Symbol	SLC6A4
NCBI Official Synonym Symbols	HTT; 5HTT; OCD1; SERT; 5-HTT; SERT1; hSERT; 5-HTTLPR
UniProt Protein Name	Sodium-dependent serotonin transporter
UniProt Synonym Protein Names	5HT transporter; 5HTT; Solute carrier family 6 member 4
UniProt Gene Name	SLC6A4
UniProt Synonym Gene Names	HTT; SERT; 5HTT
UniProt Entry Name	SC6A4_HUMAN
NCBI Protein Information	sodium-dependent serotonin transporter; 5HT transporter; serotonin transporter 1; 5-hydroxytryptamine transporter; Na+/Cl- dependent serotonin transporter; 5-hydroxytryptamine (serotonin) transporter; solute carrier family 6 (neurotransmitter transporter
NCBI Summary for SLC6A4	This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is a target of psychomotor stimulants, such as amphetamines and cocaine, and is a member of the sodium:neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease patients, and depression-susceptibility in people experiencing emotional trauma. [provided by RefSeq, Jul 2008]

UniProt Comments for SLC6A4	SERT: Serotonin transporter whose primary function in the central nervous system involves the regulation of serotonergic signaling via transport of serotonin molecules from the synaptic cleft back into the pre-synaptic terminal for re-utilization. Plays a key role in mediating regulation of the availability of serotonin to other receptors of serotonergic systems. Terminates the action of serotonin and recycles it in a sodium-dependent manner. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A4 subfamily. Protein type: Transporter; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: neuron projection; integral to plasma membrane; plasma membrane; endomembrane system; endosome membrane; cytosol; lipid raft Molecular Function: actin filament binding; serotonin transmembrane transporter activity; protein binding; protein homodimerization activity; serotonin:sodium symporter activity; myosin binding; cocaine binding; monoamine transmembrane transporter activity; syntaxin-1 binding; nitric-oxide synthase binding; Rab GTPase binding Biological Process: circadian rhythm; response to drug; vasoconstriction; response to toxin; monoamine transport; positive regulation of cell cycle; thalamus development; social behavior; serotonin uptake; negative regulation of organ growth; negative regulation of synaptic transmission, dopaminergic; protein oligomerization; memory; response to estradiol stimulus; negative regulation of granule cell precursor proliferation; negative regulation of neuron differentiation; response to hypoxia; brain morphogenesis; sperm ejaculation; serotonin transport; transmembrane transport; response to nutrient; protein homooligomerization Disease: Obsessive-compulsive Disorder; Anxiety
Research Articles on SLC6A4	**1.** Our results suggest, for the first time, a significant relationship between functional SLC6A4 and COMT polymorphisms with specific human circadian phenotypes
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