Best Tools for immunology Research

SC6A4 Polyclonal Antibody

Catalog No :	YT6176
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	SC6A4
Fields :	>>Synaptic vesicle cycle;>>Serotonergic synapse
Gene Name :	SLC6A4 HTT SERT
Protein Name :	SC6A4
Human Gene Id :	6532
Human Swiss Prot No :	P31645
Immunogen :	Synthesized peptide derived from human SC6A4
Specificity :	This antibody detects endogenous levels of human SC6A4
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	69kD

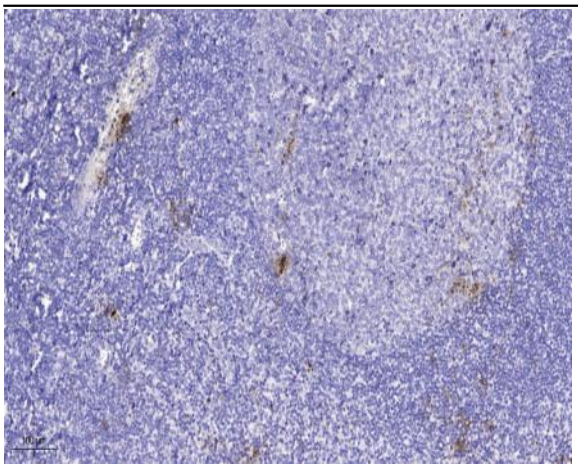
Background : This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is a target of psychomotor stimulants, 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],

Function : function:Terminates the action of serotonin by its high affinity sodium-dependent reuptake into presynaptic terminals.,miscellaneous:This protein is the target of psychomotor stimulants such as amphetamines or cocaine.,online information:Serotonin transporter entry,online information:The Singapore human mutation and polymorphism database,polymorphism:A polymorphism in the promoter region (5-HTT gene-linked polymorphic region, 5-HTTLPR) is located approximately 1 kb upstream of the transcription initiation site and is composed of 16 repeat elements. The polymorphism consists of a 44-bp insertion or deletion involving repeat elements 6 to 8. The short allele is associated with lower transcriptional efficiency of the promoter compared with the long allele. Over half of the Caucasian population has a short allele. Individuals with one or two copies of the short allele exhibit more depressive

Subcellular Location : Cell membrane ; Multi-pass membrane protein . Endomembrane system ; Multi-pass membrane protein . Endosome membrane ; Multi-pass membrane protein . Cell junction, synapse . Cell junction, focal adhesion . Could be part of recycling endosomes (PubMed:16870614). Density of transporter molecules on the plasma membrane is itself regulated by STX1A (By similarity). Density of transporter molecules on the plasma membrane is also regulated by serotonin (PubMed:17506858). Density of transporter molecules seems to be modulated by ITGAV:ITGB3 (By similarity). .

Expression : Expressed in platelets (at protein level).

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).