ARG40186
anti-Serotonin Transporter antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Serotonin Transporter
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Serotonin Transporter
Species	Human
Immunogen	Synthetic peptide within aa. 500 to the C-terminus of Human Serotonin Transporter (NP_001036.1).
Conjugation	Un-conjugated
Alternate Names	SERT; 5HTT; SERT1; Sodium-dependent serotonin transporter; hSERT; 5-HTTLPR; Solute carrier family 6 member 4; HTT; 5-HTT; 5HT transporter; OCD1

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	U-251MG
Observed Size	69 kDa

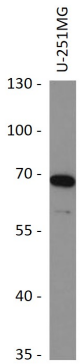
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

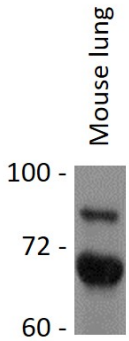
Gene Symbol	SLC6A4
Gene Full Name	solute carrier family 6 (neurotransmitter transporter), member 4
Background	This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin 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	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. [UniProt]
Calculated Mw	70 kDa
PTM	Glycosylated; modification with sialylated N-glycans is a requirement for transporters to associate with each other and to function as homooligomeric forms. Phosphorylation at Thr-276 increases 5-HT uptake and is required for cGMP-mediated SERT regulation. Phosphorylation upon PKC stimulation modifies the SERT distribution and density in the membrane, and diminishes the uptake capacity. [UniProt]
Cellular Localization	Cell membrane, Endomembrane system, Endosome membrane, Multi-pass membrane protein. [UniProt]

Images



ARG40186 anti-Serotonin Transporter antibody WB image

Western blot: 25 µg of U-251MG cell lysate stained with ARG40186 anti-Serotonin Transporter antibody at 1:1000 dilution.



ARG40186 anti-Serotonin Transporter antibody WB image

Western blot: 25 µg of Mouse lung lysate stained with ARG40186 anti-Serotonin Transporter antibody at 1:1000 dilution.