ARG63804
anti-Serotonin Transporter antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Serotonin Transporter
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	ICC/IF, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Serotonin Transporter
Species	Human
Immunogen	C-LHQGERETWGK
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
ICC/IF	10 µg/ml
WB	1 - 3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

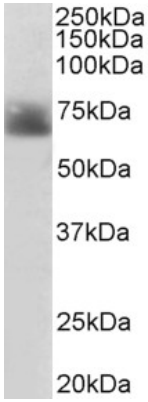
Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage 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 or below. 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

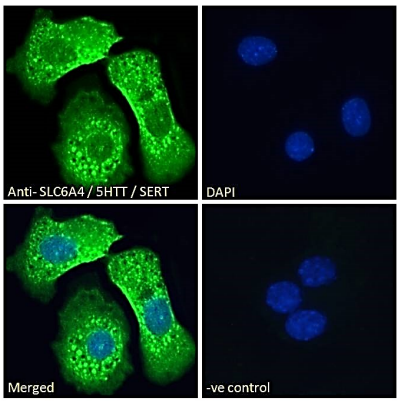
Database links	GeneID: 25553 Rat GeneID: 6532 Human Swiss-port # P31645 Human Swiss-port # P31652 Rat
Background	This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin 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]
Research Area	Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
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.

Images



ARG63804 anti-Serotonin Transporter antibody WB image

Western blot: Human Colon lysate (35 µg protein in RIPA buffer) stained with ARG63804 anti-Serotonin Transporter antibody at 2 µg/ml dilution.



ARG63804 anti-Serotonin Transporter antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HepG2 cells permeabilized with 0.15% Triton. Cells were stained with ARG63804 anti-Serotonin Transporter antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.