

Rabbit 5HT (Serotonin) Transporter Polyclonal Antibody | anti-5HT antibody

5HT (Serotonin) Transporter

CATALOG # AAA76743	HOST Rabbit	REACTIVITY Human, Mouse, Rat, Bovine	APPLICATIONS Immunofluorescence, Immunocytochemistry
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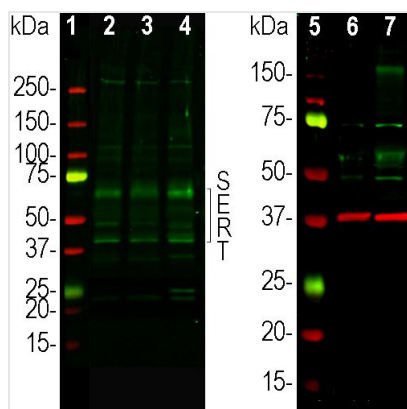
PRODUCT SYNONYMS

5HT (Serotonin) Transporter; Polyclonal Antibody; anti-5HT antibody

PRODUCT SPECIFICATIONS

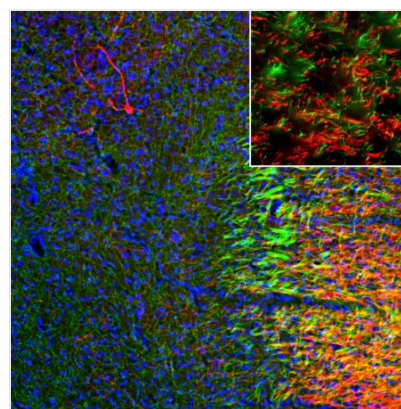
Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine
Clonality	Polyclonal
Isotype	Rabbit IgG
Form/Format	Liquid. Affinity purified antibody at 1mg/mL in 50% PBS, 50%glycerol plus 5mM NaN ₃
Applicable Applications for anti-5HT antibody	IF (Immunofluorescence), ICC (Immunocytochemistry)
Immunogen	KSITPETPTEIPCGDIRLNAV coupled to KLH
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2 degree C - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of different tissue and cell lysates using rabbit pAb to the serotonin transporter (SERT), AAA76743, dilution 1:1,000 in green. Left: [1] protein standard, [2] rat brain caudate/putmen region, [3] rat brain striatum region and [4] mouse brain. Right: [5] protein standard, [6] non-transfected HEK293 cells and [7] HEK293 cells transfected with an expression construct containing a Myc-DDK tagged full length human SERT cDNA.



IF (Immunofluorescence)

Immunofluorescent analysis of a rat brain section stained with AAA76743 in green and counterstained with chicken polyclonal antibody to tyrosine hydroxylase in red. The axons of serotonergic neurons course throughout the section but are clearly distinct from the chatacholineric processes and cell bodies revealed with the TH antibody. The blue stain reveals DNA in cell nuclei.

ADDITIONAL INFORMATION

Related Product Information for anti-5HT antibody	Serotonin, also known as 5-hydroxytryptamine, is an important neurotransmitter in the CNS and has many important functions outside the CNS. Serotonergic neuron cell bodies in the CNS are found in the raphe nucleus and send their fine beaded processes throughout the brain and spinal cord. The serotonergic system modulates mood, perception, emotion, aggression, stress responses, sleep and appetite and contributes to learning and memory formation. The processes of serotonergic neurons express the Na⁺/Cl⁻ dependent serotonin transporter (SERT), which is responsible for uptake of serotonin from the extracellular space following synaptic release. It was made against a peptide identical to the C-terminal 21 amino acids of human SERT and can be used to visualize serotonergic neurons and their processes in cell culture and in sectioned material. The homologous rodent peptide differs by one conservative amino acid substitution and we have shown that this antibody works well on rodent and bovine tissues and, based on sequence conservation, is expected to be widely applicable to other mammals.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	300444
NCBI GeneID	6532
UniProt Accession #	P31645; Q5EE02; AAB26687
Molecular Weight	70,325 Da
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
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,
UniProt Protein Name	Sodium-dependent serotonin transporter
UniProt Gene Name	SLC6A4
UniProt Synonym Gene Names	HTT; SERT; 5HTT
UniProt Entry Name	SC6A4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.