

Rabbit anti-Human SERT Antibody | anti-SERT antibody

Anti-SERT [8B6], Rabbit IgG

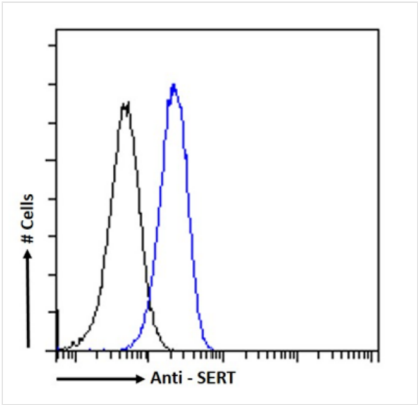
CATALOG # AAA72257	HOST Rabbit	REACTIVITY Human	APPLICATIONS CRYS (Crystallization)
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PRODUCT SYNONYMS

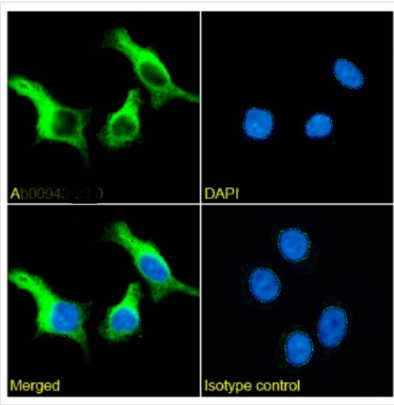
SERT; Anti-SERT [8B6]; Rabbit IgG; SLC6A4; Sodium-dependent serotonin transporter; 5HT transporter; Solute carrier family 6 member 4; HTT; anti-SERT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Isotype	Rabbit IgG, Kappa
Clone Number	8B6
Specificity	The 8B6 Fab binds to extracellular loops 2 and 4 of hSERT, as shown by crystallography (Coleman et al, 2016).
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SERT antibody	CRYS (Crystallization)
Immunogen	8B6 was produced by immunising SERT KO mice with residues 73-616 of wildtype human SERT. Hybridomas were generated using established protocols.
Origin Pub PMID	27049939
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-SERT antibody 8B6 (AAA72257). Paraformaldehyde fixed HepG2 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of 8B6 (AAA72257-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of HepG2 cells with anti-SERT (AAA72257) 8B6. Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells stained with the chimeric rabbit IgG version of 8B6 (AAA72257-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72257-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SERT antibody	The 8B6 Fab fragment was crystallised in complex with human SERT to aid structure determination (Coleman et al, 2016).
Product Categories/Family for anti-SERT antibody	Neurobiology; neurotransmitters; CNS
References	Coleman et al. Thermostabilization, Expression, Purification, and Crystallization of the Human Serotonin Transporter Bound to S-citalopram J Vis Exp. 2016; (117): 54792. PMID:27929454

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.

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Online datasheet: <https://www.aaabiotech.com/rabbit-human-antibody/ser/72257>