

Mouse anti-Human SERT Antibody | anti-SERT antibody

Anti-SERT [8B6], Mouse IgG2a

CATALOG # AAA72256	HOST Mouse	REACTIVITY Human	APPLICATIONS CRYS (Crystallization)
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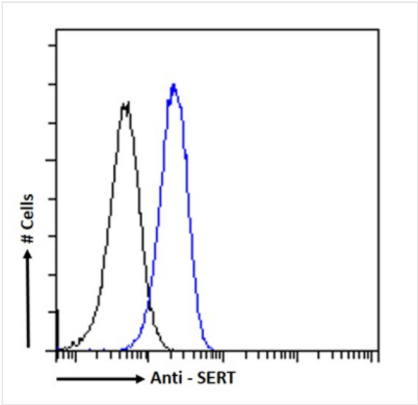
PRODUCT SYNONYMS

SERT; Anti-SERT [8B6]; Mouse IgG2a; SLC6A4; Sodium-dependent serotonin transporter; 5HT transporter; Solute carrier family 6 member 4; HTT; anti-SERT antibody

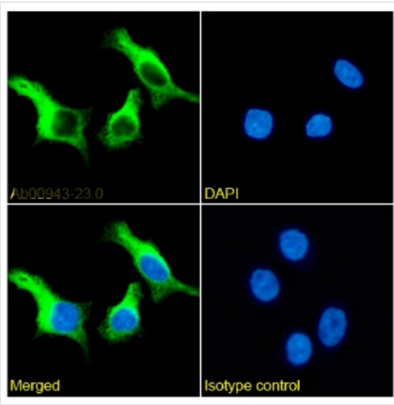
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	Mouse IgG2a, 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
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-SERT antibody 8B6 (AAA72256). Paraformaldehyde fixed HepG2 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of 8B6 (AAA72256-23.0, 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 (AAA72256) 8B6. Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells stained with the chimeric rabbit IgG version of 8B6 (AAA72256-23.0) 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 AAA72256-23.0, 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/mouse-human-antibody/ser/72256>