

**Drosophila Serotonin Transporter (SERT) Antibodies**

Cat # SERT13-P,	Drosophila Serotonin transporter control/blocking peptide #3	<b>SIZE:</b> 100 ug
Cat # SERT13-A,	Rabbit Anti- Drosophila Serotonin transporter, IgG #3 aff.pure	<b>SIZE:</b> ..100ug

Serotonin plays important physiological functions at the intestinal level, the human intestinal epithelial Caco-2 cells functionally express SERT, both at their apical and basolateral cell membranes. It is a 630-aa residue in all human (chr 17q11), rat and mouse and 622-aa in Drosophila. It is a multi-pass membrane protein. Serotonin transporter Terminates the action of serotonin by its high affinity sodium-dependent reuptake into presynaptic terminals. Expression is specific to cell bodies in the ventral ganglion of the embryonic and larval nervous system. This protein is the target of psychomotor stimulants such as amphetamines or cocaine

**Source of Antigen, Antibodies**

<b>Antigen</b>	20-aa peptide of Drosophila SERT; <b>Designated (SERT13-P or control peptide)</b> conjugated to KLH; Epitope location ~ Near N-terminus, 1 <sup>st</sup> Extracellular domain
<b>Ab Host/type</b>	Rabbit, polyclonal Aff pure IgG ( <b>cat #SERT13-A</b> ) purified over antigen-agarose column
<b>2-ab</b>	<b>Goat Anti-rabbit IgG-HRP cat # 20320</b> (AP, biotin, FITC conjugates also available)
<b>-ve control</b>	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Form & Storage of Antibodies/Peptide Control**

**Affinity pure IgG**  
100 ug/100ul solution lyophilized powder  
Supplied in **Buffer:** PBS+0.1% BSA  
**Reconstitute powder** in PBS at 1mg/ml

**Control/blocking peptide**  
100 ug/100 ul solution lyophilized powder  
Supplied in Buffer: PBS pH 7.5,  
**Reconstitute powder** in PBS at 1 mg/ml.

**Storage**  
**Short-term:** unopened, undiluted liquid vials at -20°C and powder at 4°C or -20°C..

**Long-term:** at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20°C or below.  
**Shipping:** 4°C for solutions and room temp for powder

**Recommended Usage**

**Western Blotting** (~1-10 ug/ml for affinity pure IgG using Chemiluminescence technique).

**ELISA:** Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (1:10-50K for neat serum and 0.5-1 ug/ml for affinity pure).

**Histochemistry:** not tested. We recommend the use of affinity purified antibody at 2-10 ug/ml.

**Specificity & Cross-reactivity**

Drosophila SERT13-P peptide sequence is 70% conserved in manduca sexta 5Ht or SERT transporter. No significant sequence conservation is found with mammalian SERT. Antibody crossreactivity in various species is not experimentally confirmed. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity

**General References:**

1. Canton S (1994) PNAS 91, 5158-5162; Corey JL (1994) PNAS 91, 1188-1192;

**Citations of ADI's antibodies for Dopamine related products** (see updated list at: [www.4adi.com/flr/dopamine.html](http://www.4adi.com/flr/dopamine.html) )

\*This product is for In vitro research use only.

**Related material available from ADI**

- Antibodies for Dopamine Transporter & Recombinant DAT
- Anti-VMAT1, VMAT2
- Anti-Dopamine D1, D2, D3, D4 receptor
- Anti-AVP-V1, AVP-V2 receptors
- Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

SERT13-A 70111A