

**Serotonin Transporter (SERT) Antibodies**

Cat # SERT12-P	Human Serotonin transporter control peptide #2	<b>SIZE:</b> 100 ug
Cat # SERT12-A	Rabbit Anti- Human Serotonin transporter, IgG #2 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.

**Source of Antigen, Antibodies**

<b>Antigen</b>	19-aa peptide of Human SERT; <b>Designated (SERT12-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 #SERT12-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**

Human SERT12-P peptide sequence is 100% conserved in chimp, monkey, sheep, and bovine, 94% in horse and cat, 89% in chicken, mouse and rat serotonin transporter. 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. Lesch KP (1993) J. Neural Transm. 91, 67-73; Ramamoorthy S (1993) PNAS 90, 2542-2546; Caspi A (2003) Science 301, 386-389

**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

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