ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Life Technologies™ Your Molecular & Cell Technology Partner

Drosophila Serotonin Transporter (SERT) Antibodies

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

Antigen	20-aa peptide of Drosophila SERT; **Designated (SERT13-P or control peptide)** conjugated to KLH; Epitope location ~ Near N-terminus, 1st Extracellular domain
Ab Host/type	Rabbit, polyclonal Aff pure IgG (**cat #SERT13-A**) purified over antigen-agarose column
2-ab	**Goat Anti-rabbit IgG-HRP** cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control	# 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 saxta 5Ht or SERT transporter. No significant sequence conservation is found with mammalian SERT. Antibody crossreactivity in various species is not experimnetlaly condirmed. 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)

*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

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