



## Somatostatin Receptor-1

## Data Sheet

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<b>Catalog Number:</b>	RA25004	<b>Host:</b>	Rabbit
<b>Product Type:</b>	Polyclonal antiserum	<b>Species Reactivity:</b>	Human, Rat, Mouse,
<b>Immunogen Sequence:</b>	Synthetic peptide from the c-terminus of rat sst1 receptor conjugated to cysteine.	<b>Format:</b>	Whole Serum in PBS with .05% Sodium Azide. Concentration of 1 mg/ml.
<b>Applications:</b>	Immunohistochemistry 1:1000 RA25001 NK1 can be used in immunohistochemical analysis on frozen and fixed tissue sections and permeabilized cells. Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.		
<b>Storage:</b>	Store frozen. Aliquot as undiluted antisera and immediately place at -20°C. Antisera may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum.		
<b>References:</b>	<ol style="list-style-type: none"><li>1. Mantyh, P.W., et al, Inhibition of Hyperalgesia by Ablation of Lamina I Spinal Neurons Expressing the Substance P Receptor. <i>Science</i>. 278: 275-279, 1997.</li><li>2. Mantyh, C.R. et al, Substance P Activation of Enteric Neurons in Response to Intraluminal Clostridium difficile Toxin A in the Rat Ileum. <i>Gastroenterology</i>. 111:1272-1280, 1996.</li><li>3. Mantyh, P.W. et al, Rapid endocytosis of a G protein-coupled receptor: Substance P-evoked internalization of its receptor in the rat striatum in vivo. <i>PNAS</i>. 92: 2622-2626, 1995.</li><li>4. Mantyh, P.W., et al, Receptor Endocytosis and Dendrite Reshaping in Spinal Neurons After Somatosensory Stimulation. <i>Science</i>. 268: 1629-1632, 1995.</li><li>5. Mantyh, P.W. et al, Differential expression of two isoforms of the neurokinin-1 (substance P) receptor in vivo. <i>Brain Res</i>. 719: 8-13, 1996.</li><li>6. Allen, B.J., et al, Noxious Cutaneous Thermal Stimuli induce a graded release of endogenous substance P in the Spinal Cord: Imaging Peptide Action in vivo. <i>J. of Neuroscience</i>. 17(15): 5921-5927, 1997.</li><li>7. Vigna, S.R., et al, Characterization of Antibodies to the Rat Substance P (NK-1) Receptor and to a Chimeric Substance P Receptor Expressed in Mammalian Cells. <i>The J. of Neuroscience</i>. 14(2): 834-845, 1994.</li></ol>		

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### Application Notes

Specific to Somatostatin Receptor I (sst1) and does not react with Somatostatin Receptor II (sstII).

#### Description/Data:

Somatostatin is a tetradecapeptide that is widely distributed in the body. It acts on multiple organs in the body and also functions as a neuropeptide affecting electrical activity of neurons. Somatostatin Receptor 2 (SSR2), along with SSR1, is expressed at the highest levels in the stomach and jejunum, cerebrum and kidney, respectively.

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