

## Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody Catalog # ABO14300

### Specification

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#### Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	<a href="#">P30874</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 6752

#### Other Names

Somatostatin receptor type 2, SS-2-R, SS2-R, SS2R, SST2, SRIF-1, SSTR2

#### Calculated MW

41333 MW KDa

#### Application Details

WB 1:1000-1:2000<br>IHC 1:50-1:200<br>IP 1:50

#### Subcellular Localization

Cell membrane; Multi-pass membrane protein. Cytoplasm. Located mainly at the cell surface under basal conditions. Agonist stimulation results in internalization to the cytoplasm.

#### Tissue Specificity

Expressed in both pancreatic alpha- and beta- cells (at protein level). Expressed at higher levels in the pancreas than other somatostatin receptors. Also expressed in the cerebrum and kidney and, in lesser amounts, in the jejunum, colon and liver. In the developing nervous system, expressed in the cortex where it is located in the preplate at early stages and is enriched in the outer part of the germinal zone at later stages. In the cerebellum, expressed in the deep part of the external granular layer at gestational week 19. This pattern persists until birth but disappears at adulthood..

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human Somatostatin Receptor 2

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody - Protein Information****Name** SSTR2**Function**

Receptor for somatostatin-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase. In addition it stimulates phosphotyrosine phosphatase and PLC via pertussis toxin insensitive as well as sensitive G proteins. Inhibits calcium entry by suppressing voltage-dependent calcium channels. Acts as the functionally dominant somatostatin receptor in pancreatic alpha- and beta-cells where it mediates the inhibitory effect of somatostatin-14 on hormone secretion. Inhibits cell growth through enhancement of MAPK1 and MAPK2 phosphorylation and subsequent up-regulation of CDKN1B. Stimulates neuronal migration and axon outgrowth and may participate in neuron development and maturation during brain development. Mediates negative regulation of insulin receptor signaling through PTPN6. Inactivates SSTR3 receptor function following heterodimerization.

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=Located mainly at the cell surface under basal conditions. Agonist stimulation results in internalization to the cytoplasm

**Tissue Location**

Expressed in both pancreatic alpha- and beta-cells (at protein level). Expressed at higher levels in the pancreas than other somatostatin receptors. Also expressed in the cerebrum and kidney and, in lesser amounts, in the jejunum, colon and liver. In the developing nervous system, expressed in the cortex where it is located in the preplate at early stages and is enriched in the outer part of the germinal zone at later stages. In the cerebellum, expressed in the deep part of the external granular layer at gestational week 19. This pattern persists until birth but disappears at adulthood

**Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Somatostatin Receptor 2 SSTR2 Rabbit Monoclonal Antibody - Images**