

## Product Information

### Anti-Somatostatin Receptor Type 4

produced in rabbit, affinity isolated antibody

Catalog Number **S0945**

Synonym: Anti- SSTR4

#### Product Description

Anti-Somatostatin Receptor Type 4 is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the extracellular N-terminus of human somatostatin receptor Type 4. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Somatostatin Receptor Type 4 specifically recognizes human somatostatin receptor Type 4 by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 50% homology with rat genes and 38% with mouse genes. Other species reactivity has not been confirmed.

SSTR4 is specifically expressed in human fetal and adult brain and lung tissue. The SST4 receptors are distributed to distal dendrites, and therefore most likely functions postsynaptically. SSTR4 shares structural features with the superfamily of receptors having 7 transmembrane segments. It has a predicted molecular weight of 42 kDa. Its amino acid sequence showed 58, 43, and 41% identity with the sequences of SSTR1, SSTR2 and SSTR3, respectively

Somatostatin Receptor Type 4 expression has been documented in brain, gastrointestinal tract, pancreas, and prostate tissues. No ESTs have been identified.

#### Reagent

Supplied as a solution of 1 mg/ml in phosphate buffered saline, pH 7.7, containing 0.01% sodium azide.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

Immunohistochemistry: a minimum working concentration of 3 µg/mL is determined using human pancreatic islets of Langerhans tissue.

**Note:** In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

#### References

1. Rohrer, L., et al., Cloning and characterization of a fourth human somatostatin receptor., *Proc. Nat. Acad. Sci.* **90**, 4196-4200 (1993).
2. Liu S., et al., 2-pyridylthioureas: novel nonpeptide somatostatin agonists with SST4 selectivity., *Curr. Pharm. Des.*, **5**, 255-263 (1999).

This product manufactured by MBL International.

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