

Product Information

Anti-Somatostatin Receptor Type 2

produced in rabbit, affinity isolated antibody

Catalog Number **S0695**

Product Description

Anti-Somatostatin Receptor Type 2 (SSTR2) is produced in rabbit using as immunogen a synthetic peptide corresponding to the 2nd extracellular loop of human somatostatin receptor Type 2 conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Somatostatin Receptor Type 2 specifically recognizes human somatostatin receptor Type 2 by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 100% homology with mouse and rat genes. Other species reactivity has not been confirmed.

Somatostatin exerts its biologic effects by binding to specific high-affinity receptors, which appear in many cases to be coupled to GTP-binding proteins. SSTR2 mRNA is variably expressed in all neuroblastoma tumors with a relevant reduction in the more advanced stage. Expression of SSTR2 represents a prognostic marker for neuroblastoma. The main clinical value of a quantitative measure of SSTR2 lies in its ability to detect patients at low risk, independently from other prognostic factors, including MYCN amplification. SSTR2 gene expression is lost in 90% of human pancreatic adenocarcinomas due to the fact that SSTR2 sensitizes human pancreatic cancer cells to death ligand-induced apoptosis. This may be relevant for the clinical management of chemoresistant pancreatic adenocarcinoma.

SSTR2 expression has been reported in adrenal, aorta, brain, breast, eye, gastrointestinal tract, pancreas, prostate, spinal cord, and thyroid. ESTs have been isolated from brain, eye, head/neck, kidney, lymph node, pineal, and prostate libraries.

Reagent

Supplied as a solution of 1 mg/ml in phosphate buffered saline, pH 7.7, containing 0.1% 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

Store at -70 °C 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: The optimal working dilution should be determined by the researcher.

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

References

1. Ardjomand, N., et al., Expression of somatostatin receptors in uveal melanomas., *Invest. Ophthalm. Vis. Sci.* 44, 980-987 (2003)
2. Buscail, L., et al., Loss of sst2 somatostatin receptor gene expression in human pancreatic and colorectal cancer., *Cancer Res.*, **56**, 1823-1827 (1996).
3. Raggi, C. C., et al., Quantitative determination of sst2 gene expression in neuroblastoma tumor predicts patient outcome., *J. Clin. Endocr. Metab.*, **85**, 3866-3873 (2000).

This product is manufactured by MBL International Corporation

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