



THE UNIVERSITY of TEXAS

HEALTH SCIENCE CENTER AT HOUSTON

Office of Technology Management

ANTIPEPTIDE ANTIBODIES THAT RECOGNIZE SPECIFIC SOMATOSTATIN RECEPTOR SUBTYPES

The Technology: This patent covers:

1. A method for developing somatostatin receptor subtype specific antibodies.
2. Antibodies developed using this method to identify somatostatin receptor subtypes belonging to the seven transmembrane domain receptor family.
3. The use of these antibodies, alone or in kit form, to identify somatostatin receptors in tissues or protein extracts.

The utility of the patented technology is founded upon its ability to selectively identify somatostatin receptor subtypes and thus will be of great value, but not limited to, the fields of diabetes, immunology, neurology and oncology.

Publications :

- Development and use of a receptor antibody to characterize the interaction between somatostatin receptor sst1 and G proteins. [Mol Pharmacol. 1995 Dec;48\(6\):1004-14](#)
- Localization of the somatostatin receptor sst2A in rat brain using a specific anti peptide antibody. [J Neurosci. 1996 Jul 15;16\(14\):4468-78.](#)
- Coupling specificity between somatostatin receptor sst2A and G proteins: Isolation of the receptor-G protein complex with a receptor antibody. [Mol Endocrinol. 1997 May;11\(5\):527-37.](#)
- Agonist induced desensitization, internalization and phosphorylation of the sst2A somatostatin receptor. [J Biol Chem. 1997 May 23;272\(21\):13869-76.](#)

NON-CONFIDENTIAL TECHNOLOGY DESCRIPTION

The preceding is intended to be a non-confidential summary of a novel technology created at the University of Texas Health Science Center at Houston.

UTHSCH Ref. No. 1994-0006

Inventors: Dr. Agnes Schonbrunn

Patent Status: issued, 5, 998, 154

License Available: world-wide; exclusive or non-exclusive

To obtain further information about this technology, please contact:
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- Immunohistochemical localization of somatostatin receptor sst2A in the rat pancreas. [Endocrinology. 1997 Jul;138\(7\):2632-5.](#) (*chosen as cover illustration for the June 1997 issue*).
- Cell specific expression of the sst2A and sst5 somatostatin receptors in the rat anterior pituitary. [Endocrinology. 1998 Jan;139\(1\):414-9.](#)

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