ADVANCED TARGETING SYSTEMS

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Biotin-labeled Antibody to Somatostatin Receptor-5 (SSTR5)
MOUSE MONOCLONAL

Catalog Number:	BT-N24
Quantity:	50 micrograms
Format:	PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host:	Mouse
Isotype:	IgM Kappa
Clone:	(1B4) 3C6
Immunogen:	peptide corresponding to the extracellular domain of rat SSTR5 conjugated to keyhole limpet hemocyanin (KLH)

Background:
Somatostatin Receptor-5 is one of the five subtypes termed SSTR1-5. They are G-protein-coupled receptors characterized by seven transmembrane helices with an extracellular amino terminal domain and an intracellular carboxy terminus. These receptors function in the regulation of numerous physiological processes such as the secretion of insulin, glucagen, and growth hormone, as well as cell growth induced by neuronal excitation in both the central and peripheral nervous system. Somatostatin receptors are activated via somatostatin secreted by nerve and endocrine cells.

Specificity and Preparation:
This antibody was raised against rat somatostatin receptor-5 (SSTR5) and recognizes SSTR5 in human and rat. The SSTR5 monoclonal antibody was developed using a peptide corresponding to the extracellular amino terminal domain of rat SSTR5 conjugated to keyhole limpet hemocyanin (KLH). It has been conjugated to biotin via an amide bond. This antibody is routinely tested by flow cytometry.

Usage and Storage:
Applications include immunohistochemistry and immunocytochemistry (ATS in-house, 2-10 μg/ml), flow cytometry (ATS in-house, 2-10 μg/ml) and ELISA (ATS in-house, 1:500). Results may vary depending on protocol, tissue type, etc; therefore the final working dilutions should be determined by end user. The antibody is stable for one year at -20°C. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

Available Control(s): SSTr5 peptide

References:
1. Moller LN, Stidsen CE, Hartmann B, Holst JJ (2003) Somatostatin receptors. *Biochim Biophys Acta* 1616 (1):1-84. Review.

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