ADVANCED TARGETING SYSTEMS

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Alexa488-labeled Antibody to Somatostatin Receptor-1 (SSTR1)

MOUSE MONOCLONAL

Catalog Number:	FL-N35
Quantity:	50 micrograms
Format:	50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; no preservative.
Host:	Mouse
Isotype:	IgM Kappa
Clone:	(15F10) 2D7
Immunogen:	peptide corresponding to the extracellular domain of SSTR1 conjugated to keyhole limpet hemocyanin (KLH)

Background:
Somatostatin Receptor-1 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-1 (SSTR1) and recognizes SSTR1 in human and rat. The SSTR1 monoclonal antibody was developed using a peptide corresponding to the extracellular domain of SSTR1 conjugated to keyhole limpet hemocyanin (KLH). It has been conjugated to the fluorescent dye Alexa488. 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), immunoblotting (ATS in-house, western blot 2-10 μg/ml), and ELISA (ATS in-house, 1:125,000). The final working dilutions should be determined by end user.
Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

Available Control(s): SSTr1 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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