

**Alexa488-labeled Antibody to Somatostatin Receptor-5 (SSTR5)**  
MOUSE MONOCLONAL

**Catalog Number:** AB-N24-FLA  
**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:** (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, glucagon, 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 & 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 the fluorescent dye Alexa488. This antibody is routinely tested by flow cytometry.

**Usage:** Applications include immunohistochemistry and immunocytochemistry (ATS in-house, 2-10  $\mu\text{g/ml}$ ), flow cytometry (ATS in-house, 2-10  $\mu\text{g/ml}$ ) 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.

**Storage:** Gently spin down material 5-10 seconds in a microfuge before use. The material can be handled safely using normal laboratory precautions. Store the antibody at  $-20^{\circ}\text{C}$  for up to one year.

**Selected 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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**Control(s):** SSTR5 peptide

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