Advanced Targeting Systems

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Antibody to Somatostatin Receptor-1 (SSTR1)

RABBIT POLYCLONAL

Catalog Number: AB-N20
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: peptide corresponding to the extracellular domain of rat SSTR1 conjugated to keyhole limpet hemocyanin (KLH)

Background: Somatostatin Receptor-1 is one of five receptor 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 somatosatin receptor-1 (SSTR1) and recognizes SSTR1 in human. The somatostatin receptor antisera was developed in rabbit using a peptide corresponding to the extracellular domain conjugated to keyhole limpet hemocyanin (KLH) for immunization. The antibody is routinely tested by immunoblotting.

Usage: Applications include ELISA (ATS in-house; 1:500) and immunoblotting using a dilution of 1:500 -1:1,000 where a band is seen at 53 kDa in Mia PaCa-2 cell membrane extracts representing SSTR1. This is consistent with the glycosylated form of the receptor,[1] though lower than 60 kDa reported elsewhere.[2,3]

Storage: Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

For research use only, not for use as a diagnostic.

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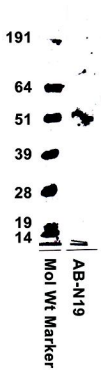
Selected References:

1. Helboe L, Moller M, Norregaard L, Schiodt M, Stidsen CE (1997) Development of selective antibodies against the human somatostatin receptor subtypes sst1-sst5. *Brain Res Mol Brain Res* 49(1-2):82-88.
2. Gu YZ, Brown PJ, Loose-Mitchell DS, Stork PJ, Schonbrunn A (1995) Development and use of a receptor antibody to characterize the interaction between somatostatin receptor subtype 1 and G proteins. *Mol Pharmacol* 48(6):1004-1014.
3. Hadcock JR, Strnad J, Eppler CM (1994) Rat somatostatin receptor type 1 couples to G proteins and inhibition of cyclic AMP accumulation. *Mol Pharmacol* 45(3):410-416.

Control(s): SSTr1 peptide

To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols



Lane 1: Molecular weight standards (Invitrogen SeeBlue)
Lane 2: 111 μg of Mia PaCa-2 (human pancreatic cells) cell membrane extract probed with AB-N19 at a 1:100 dilution.

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