**BACKGROUND**

SSTRs (for somatostatin receptors) represent a family of G protein-coupled receptors which mediate the diverse biological actions of somatostatin (SST). There are five distinct subtypes of SSTRs that bind two natural ligands, SST-14 and SST-28. SSTR2 gives rise to spliced variants, SSTR2A and SSTR2B. SST Rs share common signaling pathways such as the ability to inhibit adenyl cyclase via GTP binding proteins. Some of the subtypes are also coupled to tyrosine phosphatase (SSTR1,2), Ca\(^{2+}\) channels (SSTR2), Na\(^{+}/H^{+}\) exchanger (SSTR1), and PLA-2 (SSTR4), and MAP kinase (SSTR4). Individual target cells typically express more than one SSTR subtype and often all five isoforms. Subtypes of SSTR can form functional homo- and heterodimers.

**CHROMOSOMAL LOCATION**

Genetic locus: SSTR2 (human) mapping to 17q25.1; Sstr2 (mouse) mapping to 11E2.

**SOURCE**

SSTR2 (A-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of SSTR2a of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 mL of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11606 P, (100 µg peptide in 0.5 mL PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

SSTR2 (A-20) is recommended for detection of SSTR2a and SSTR2b of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SSTR2 (A-20) is also recommended for detection of SSTR2a and SSTR2b in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SSTR2 siRNA (h): sc-44119, SSTR2 siRNA (m): sc-42270, SSTR2 shRNA Plasmid (h): sc-44119-SH, SSTR2 shRNA Plasmid (m): sc-42270-SH, SSTR2 shRNA (h) Lentiviral Particles: sc-44119-V and SSTR2 shRNA (m) Lentiviral Particles: sc-42270-V.

Molecular Weight of SSTR2: 148 kDa.

Positive Controls: AT-3 whole cell lysate.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**SELECT PRODUCT CITATIONS**


