**BACKGROUND**

The members of the G protein-coupled receptor family are distinguished by their slow transmitting response to ligand binding. These seven transmembrane proteins include the adrenergic, serotonin and dopamine receptors. The effect of the signaling molecule can be excitatory or inhibitory depending on the type of receptor to which it binds. β-adrenergic bound to adrenaline activates adenylylcyclase, while α2-adrenergic receptor bound to adrenaline inhibits adenylylcyclase. Like the α2-adrenergic receptor, serotonin receptor functions are also mediated by G proteins that inhibit the activity of adenylylcyclase. The serotonin receptors have been classified into several categories, designated SR-1-7 (5HT1-7). Subtypes within the SR-1 group include SR-1A, -1B, -1D, -1E and -1F.

**CHROMOSOMAL LOCATION**

Genetic locus: HTR1A (human) mapping to 5q12.3; Htr1a (mouse) mapping to 13 D1.

**SOURCE**

SR-1A (H-119) is a rabbit polyclonal antibody raised against amino acids 218-336 of SR-1A 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.

**APPLICATIONS**

SR-1A (H-119) is recommended for detection of SR-1A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

SR-1A (H-119) is also recommended for detection of serotonin 1A receptor (5HT1A) in additional species, including equine.

Suitable for use as control antibody for SR-1A siRNA (h): sc-36553, SR-1A siRNA (m): sc-36554, SR-1A shRNA Plasmid (h): sc-36553-SH, SR-1A shRNA Plasmid (m): sc-36554-SH, SR-1A shRNA (h) Lentiviral Particles: sc-36553-V and SR-1A shRNA (m) Lentiviral Particles: sc-36554-V.

Molecular Weight of SR-1A: 46 kDa.

Molecular Weight of glycosylated SR-1A: 55-65 kDa.

Positive Controls: Saos-2 cell lysate: sc-2235, Daudi cell lysate: sc-2415 or Raji whole cell lysates: sc-364236.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

Select product citations:


**SELECT PRODUCT CITATIONS**


