**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 adenylyl cyclase, while α2-adrenergic receptor bound to adrenaline inhibits adenylyl cyclase. Like the α2-adrenergic receptor, Serotonin receptor functions are also mediated by G proteins that inhibit the activity of adenylyl cyclase. 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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: HTR1D (human) mapping to 1p36.12; Htr1d (mouse) mapping to 4 D3.

**SOURCE**

SR-1D (H-70) is a rabbit polyclonal antibody raised against amino acids 221-290 of SR-1D 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.

**STORAGE**

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

**APPLICATIONS**

SR-1D (H-70) is recommended for detection of SR-1D 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-1D (H-70) is also recommended for detection of SR-1D in additional species, including equine, bovine, porcine and avian. Suitable for use as control antibody for SR-1D siRNA (h): sc-42225, SR-1D siRNA (m): sc-42226, SR-1D shRNA Plasmid (h): sc-42225-SH, SR-1D shRNA Plasmid (m): sc-42226-SH, SR-1D shRNA (h) Lentiviral Particles: sc-42225-V and SR-1D shRNA (m) Lentiviral Particles: sc-42226-V.

Molecular Weight of SR-1D: 42 kDa.
Positive Controls: mouse brain extract: sc-2253, HeLa whole cell lysate: sc-2200 or SH-SY5Y cell lysate: sc-3812.

**DATA**

**RESEARCH USE**

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

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

Try SR-1D (H-4): sc-398809, our highly recommended monoclonal alternative to SR-1D (H-70).