**BACKGROUND**

Serotonin (also designated 5-hydroxytryptamine or 5-HT) is a molecule that functions as a neurotransmitter, a hormone and a mitogen, and it is predominantly expressed in the gut, platelets and central nervous system (CNS). In the CNS, serotonin modulates several processes, including anxiety, sleep, appetite, behavior and drug abuse. In platelets and gut, serotonin plays a major role in cardiovascular function and motility of the gastrointestinal tract, respectively. Serotonin mediates its effects through several of G protein-coupled receptors, designated 5-HT receptors or alternatively SR receptors. The SR-2 receptors are comprised of three subtypes, SR-2A, SR-2B and SR-2C, which activate phospholipase C and release intracellular stores of calcium in response to serotonin. SR-2A has a specific role in tracheal smooth muscle contraction, bronchoconstriction and mediating aldosterone production, and it is also thought to play a role in several psychiatric disorders, including depression and schizophrenia. SR-2B is expressed in embryonic and adult cardiovascular tissues, gut and brain and plays an important role in the pathology of cardiac disorders. SR-2C is thought to mediate the effects of atypical antipsychotic drugs.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: HTR2C (human) mapping to Xq23; Htr2c (mouse) mapping to X F2.

**SOURCE**

SR-2C (H-85) is a rabbit polyclonal antibody raised against amino acids 374-458 of SR-2C 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-2C (H-85) is recommended for detection of serotonin 2C receptor (5-HT2C) 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), immunohistochemistry (including paraffin-embedded sections) (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-2C (H-85) is also recommended for detection of serotonin 2C receptor (5-HT2C) in additional species, including equine, canine, bovine and porcine.


Molecular Weight of endogenous SR-2C: 48 kDa.

Molecular Weight of glycosylated SR-2C: 63 kDa.


**DATA**


**SELECT PRODUCT CITATIONS**


**MONOS**

Try SR-2C (D-12): sc-17797, our highly recommended monoclonal alternative to SR-2C (D-12): sc-17797. Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see SR-2C (D-12): sc-17797.