SR-2C (D-12): sc-17797

**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 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 (D-12) is a mouse monoclonal antibody raised against amino acids 374-458 mapping at the C-terminus of 5-hydroxytryptamine (serotonin) receptor C (SR-2C) of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SR-2C (D-12) is available conjugated to agarose (sc-17797 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-17797 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-17797 PE), fluorescein (sc-17797 FITC), Alexa Fluor® 488 (sc-17797 AF488), Alexa Fluor® 546 (sc-17797 AF546), Alexa Fluor® 594 (sc-17797 AF594) or Alexa Fluor® 647 (sc-17797 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-17797 AF680) or Alexa Fluor® 790 (sc-17797 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

SR-2C (D-12) is recommended for detection of serotonin 2C receptor (5-HT2C) of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:500), 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).


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

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


**DATA**

SR-2C (D-12): sc-17797. Western blot analysis of SR-2C expression in mouse (A) and rat (B) brain extracts.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

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