

**SR-2C Polyclonal Antibody**  
**Catalog # AP72582****Specification**

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**SR-2C Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">P28335</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**SR-2C Polyclonal Antibody - Additional Information****Gene ID** 3358**Other Names**HTR2C; HTR1C; 5-hydroxytryptamine receptor 2C; 5-HT-2C; 5-HT2C; 5-HTR2C;  
5-hydroxytryptamine receptor 1C; 5-HT-1C; 5-HT1C; Serotonin receptor 2C**Dilution**WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence:  
1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.  
IHC-P~~N/A  
IF~~1:50~200**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**SR-2C Polyclonal Antibody - Protein Information****Name** HTR2C ([HGNC:5295](#))**Synonyms** HTR1C**Function**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:<a href="http://www.uniprot.org/citations/12970106" target="\_blank">12970106</a>, PubMed:<a href="http://www.uniprot.org/citations/18703043" target="\_blank">18703043</a>, PubMed:<a href="http://www.uniprot.org/citations/19057895" target="\_blank">19057895</a>, PubMed:<a href="http://www.uniprot.org/citations/29398112" target="\_blank">29398112</a>, PubMed:<a href="http://www.uniprot.org/citations/7895773" target="\_blank">7895773</a>). Also functions as a receptor for various drugs and psychoactive substances, including ergot alkaloid derivatives, 1-2,5,-dimethoxy-4-iodophenyl-2-aminopropane (DOI) and lysergic acid diethylamide (LSD) (PubMed:<a href="http://www.uniprot.org/citations/19057895" target="\_blank">19057895</a>, PubMed:<a href="http://www.uniprot.org/citations/29398112" target="\_blank">29398112</a>).

Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:<a href="http://www.uniprot.org/citations/18703043" target="\_blank">18703043</a>, PubMed:<a href="http://www.uniprot.org/citations/29398112" target="\_blank">29398112</a>). HTR2C is coupled to G(q)/G(11) G alpha proteins and activates phospholipase C-beta, releasing diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) second messengers that modulate the activity of phosphatidylinositol 3-kinase and promote the release of Ca(2+) ions from intracellular stores, respectively (PubMed:<a href="http://www.uniprot.org/citations/18703043" target="\_blank">18703043</a>, PubMed:<a href="http://www.uniprot.org/citations/29398112" target="\_blank">29398112</a>). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:<a href="http://www.uniprot.org/citations/29398112" target="\_blank">29398112</a>). Regulates neuronal activity via the activation of short transient receptor potential calcium channels in the brain, and thereby modulates the activation of pro-opiomelanocortin neurons and the release of CRH that then regulates the release of corticosterone (By similarity). Plays a role in the regulation of appetite and eating behavior, responses to anxiogenic stimuli and stress (By similarity). Plays a role in insulin sensitivity and glucose homeostasis (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

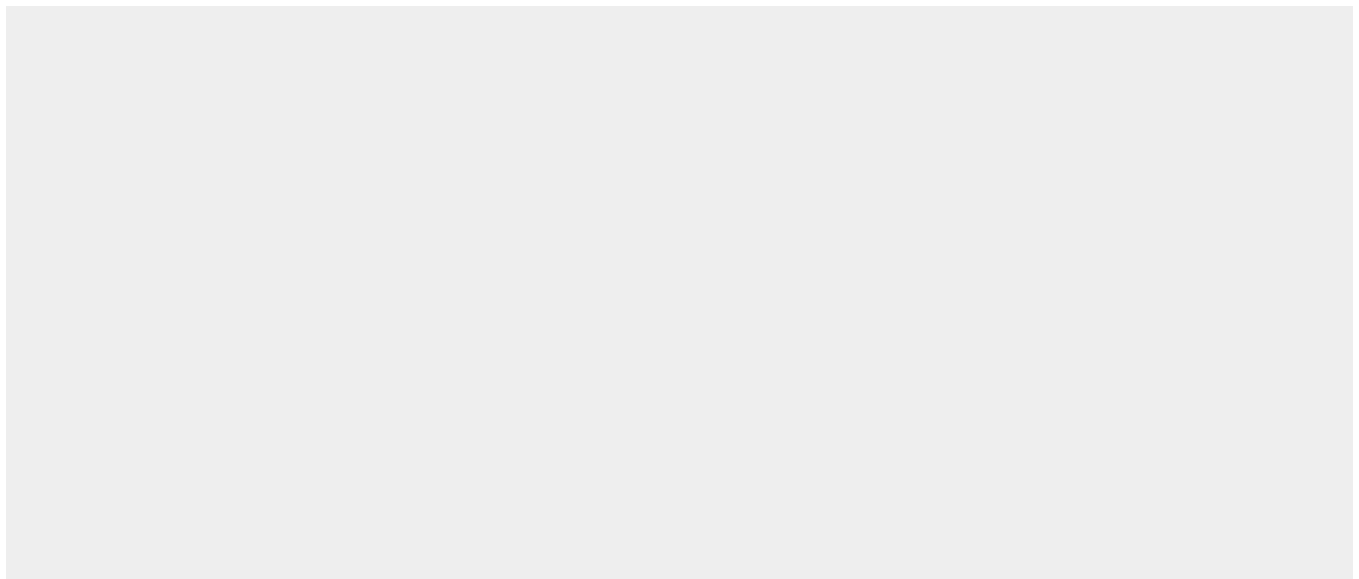
**Tissue Location**

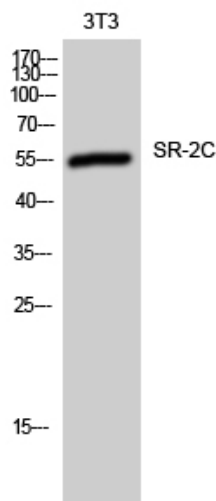
Detected in brain..

**SR-2C Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SR-2C Polyclonal Antibody - Images**



Western Blot analysis of 3T3 cells using SR-2C Polyclonal Antibody

#### **SR-2C Polyclonal Antibody - Background**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances, including ergot alkaloid derivatives, 1-2,5,-dimethoxy-4-iodophenyl-2-aminopropane (DOI) and lysergic acid diethylamide (LSD). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling activates a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and down-stream signaling cascades and promotes the release of  $\text{Ca}^{2+}$  ions from intracellular stores. Regulates neuronal activity via the activation of short transient receptor potential calcium channels in the brain, and thereby modulates the activation of pro-opiomelanocortin neurons and the release of CRH that then regulates the release of corticosterone. Plays a role in the regulation of appetite and eating behavior, responses to anxiogenic stimuli and stress. Plays a role in insulin sensitivity and glucose homeostasis.