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5HT2C Receptor Antibody
Rabbit mAb
Catalog # AP91410

Specification

5HT2C Receptor Antibody - Product Information

Application	**WB**
Primary Accession	P28335
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
5-HT-1C; 5-HT-2C; 5-HT1C; 5-HT2C; 5-HTR2C; 5HT1C; 5HT2C; 5HTR2C; 5Hydroxytryptamine 2C receptor; Htr1c; HTR2C;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**51821 Da**

5HT2C Receptor Antibody - Additional Information

Dilution	**WB~~1:1000**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human 5HT2C Receptor**
Description	**This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

5HT2C Receptor Antibody - Protein Information

Name HTR2C (HGNC:5295)

Synonyms HTR1C

Function
G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:12970106, PubMed:18703043, PubMed:<a

href="http://www.uniprot.org/citations/19057895" target="_blank">19057895, PubMed:29398112, PubMed:7895773). 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:19057895, PubMed:29398112). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:18703043, PubMed:29398112). 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:18703043, PubMed:29398112). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:29398112). 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..

5HT2C Receptor 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 Cytomety
- Cell Culture

5HT2C Receptor Antibody - Images

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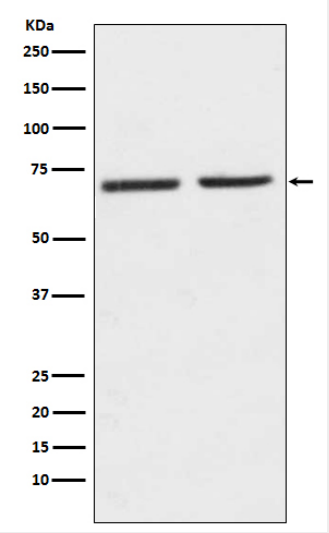

Western blot analysis of 5HT2C Receptor expression in (1) SH-SY5Y cell lysate; (2) Mouse kidney lysate.