

5HT2C Receptor Antibody

Rabbit mAb

Catalog # AP91410

Product Information

Application	WB
Primary Accession	P28335
Reactivity	Rat, Human, Mouse
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	51805

Additional Information

Dilution	WB 1:500~1:2000
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.

Protein Information

Name	HTR2C (HGNC:5295)
Synonyms	HTR1C
Function	G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed: 12970106 , PubMed: 18703043 , PubMed: 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).

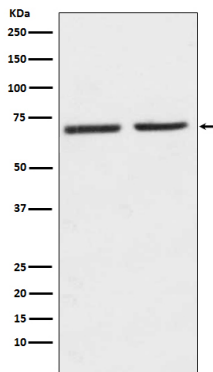
Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Detected in brain..

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.