



Anti-HTR2C (aa 1-52) polyclonal antibody (DPAB-DC1635)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Serotonin (5-hydroxytryptamine, 5-HT), a neurotransmitter, elicits a wide array of physiological effects by binding to several receptor subtypes, including the 5-HT ₂ family of seven-transmembrane-spanning, G-protein-coupled receptors, which activate phospholipase C and D signaling pathways. This gene encodes the 2C subtype of serotonin receptor and its mRNA is subject to multiple RNA editing events, where genomically encoded adenosine residues are converted to inosines. RNA editing is predicted to alter amino acids within the second intracellular loop of the 5-HT _{2C} receptor and generate receptor isoforms that differ in their ability to interact with G proteins and the activation of phospholipase C and D signaling cascades, thus modulating serotonergic neurotransmission in the central nervous system. Studies in humans have reported abnormalities in patterns of 5-HT _{2C} editing in depressed suicide victims. Three transcript variants encoding two different isoforms have been found for this gene.
Immunogen	HTR2C (NP_000859, 1 a.a. ~ 52 a.a) partial recombinant protein with GST tag. The sequence is MVNLRNAVHSFLVHLIGLLVWQSDISVSPVAAIVTDIFNTSDGGRFKFPDGV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HTR2C 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled [Homo sapiens (human)]
Official Symbol	HTR2C
Synonyms	HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled; HTR1C; 5-HT2C; 5HTR2C; 5-HTR2C; 5-hydroxytryptamine receptor 2C; 5-HT1C; 5-HT-1C; 5-HT-2C; serotonin receptor 2C; serotonin 5-HT-2C receptor; 5-hydroxytryptamine receptor 1C; 5-hydroxytryptamine receptor-1c;
Entrez Gene ID	3358
Protein Refseq	NP_000859
UniProt ID	P28335
Chromosome Location	Xq24
Pathway	Amine ligand-binding receptors; Calcium signaling pathway; G alpha (q) signalling events; GPCR ligand binding
Function	1-(4-iodo-2,5-dimethoxyphenyl)propan-2-amine binding; Gq/11-coupled serotonin receptor activity; drug binding; serotonin binding