



# 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

<b>Antigen Description</b>	Serotonin (5-hydroxytryptamine, 5-HT), a neurotransmitter, elicits a wide array of physiological effects by binding to several receptor subtypes, including the 5-HT2 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 genetically encoded adenosine residues are converted to inosines. RNA editing is predicted to alter amino acids within the second intracellular loop of the 5-HT2C 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-HT2C editing in depressed suicide victims. Three transcript variants encoding two different isoforms have been found for this gene.
<b>Immunogen</b>	HTR2C (NP_000859, 1 a.a. ~ 52 a.a) partial recombinant protein with GST tag. The sequence is  MVNLRNAVHSFLVHLIGLLWQSDISVSPVAAIVTDIFNTSDGGRFKFPDGV
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

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

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## GENE INFORMATION

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

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