# Data Sheet (Cat.No.TMAH-00583)

TargetMol

## Anti-HTR2C Antibody (4V21)

### Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 4V21 |
| Purification: | Affinity-chromatography |

### Applications

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| Verified Activity: | 1. Western Blot<br>-Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate<br>-All lanes: HTR2C antibody at 1:2000<br>-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution<br>-Predicted band size: 52, 29 kDa<br>-Observed band size: 75 kDa<br>2. IHC image of TMAH-00583 diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB. |
| Application: | ELISA,IHC,WB |
| Recommended | WB:1:500-1:5000; IHC:1:50-1:200. |

### Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | A synthetic peptide: Human 5HT2C Receptor |
| Antigen Species: | Human |
| Gene ID: | 3358 |
| Uniprot ID: | P28335 |
| Synonyms: | 5-hydroxytryptamine receptor 1C;Serotonin receptor 2C;HTR1C;5-HT1C;5-hydroxytryptamine receptor 2C;5-HT2C;5-HT-2C;5-HTR2C;5-HT-1C |
| Biology Area: | Neuroscience, Metabolism, Signal transduction |

### Research 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 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-opiomelacortin 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.



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