Datasheet for ABIN737016

anti-HTR2A antibody (AA 65-160)

Overview

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>100 μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target:</td>
<td>HTR2A</td>
</tr>
<tr>
<td>Binding Specificity:</td>
<td>AA 65-160</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Host:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate:</td>
<td>This HTR2A antibody is un-conjugated</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))</td>
</tr>
</tbody>
</table>

Product Details

<table>
<thead>
<tr>
<th>Immunogen:</th>
<th>KLH conjugated synthetic peptide derived from human 5-HTR2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Purification:</td>
<td>Purified by Protein A.</td>
</tr>
</tbody>
</table>

Target Details

<table>
<thead>
<tr>
<th>Target:</th>
<th>HTR2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Name:</td>
<td>5-HTR2 (HTR2A Products)</td>
</tr>
</tbody>
</table>
| Background:     | G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-
Target Details

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 phospholipase C and a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and promotes the release of Ca(2+) ions from intracellular stores. Affects neural activity, perception, cognition and mood. Plays a role in the regulation of behavior, including responses to anxiogenic situations and psychoactive substances. Plays a role in intestinal smooth muscle contraction, and may play a role in arterial vasoconstriction.

Subcellular location: Cell membrane

Synonyms: HTR2, 5-HT2A, 5-hydroxytryptamine receptor 2A, 5-HT-2, 5-HT-2A, Serotonin receptor 2A, HTR2A

Gene ID: 3356
UniProt: P28223
Pathways: JAK-STAT Signaling, Inositol Metabolic Process, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:
- WB 1:300-5000
- ELISA 1:500-1000
- IHC-P 1:200-400
- IHC-F 1:100-500
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid
Concentration: 1 μg/μL
Buffer: 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative: ProClin
### Handling

**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**Storage:** -20 °C

**Storage Comment:** Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Expiry Date:** 12 months

### Publications

**Product cited in:** Sun, Wang, Huang, Cao: "Antihypertensive effect of formononetin through regulating the expressions of eNOS, 5-HT2A/1B receptors and ?1-adrenoceptors in spontaneously rat arteries."


### Images

**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti 5-HTR2A/HTR2A Polyclonal Antibody, Unconjugated (ABIN737016) at 1:200 followed by conjugation to the secondary antibody and DAB staining

**Image 2.** Formalin-fixed and paraffin embedded rat brain tissue labeled with : Anti-5-HTR2A Polyclonal Antibody, unconjugated (ABIN737016) at 1: 200 followed by incubation with conjugated secondary antibody and DAB staining
Images

**SDS-PAGE**

**Image 3.** L1 rat brain, L2 human colon carcinoma lysates probed (ABIN737016) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band and observed band size: 52kDa.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN737016.