Datasheet for ABIN7043619

# anti-Serotonin Receptor 2B antibody (Extracellular, N-Term)

2 Images

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## Overview

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| Quantity: | 25 µL |
| Target: | Serotonin Receptor 2B (HTR2B) |
| Binding Specificity: | AA 6-20, Extracellular, N-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Serotonin Receptor 2B antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Immunogen: Synthetic peptide<br>Immunogen Sequence: (C)KMSEQ STISEHILQK, corresponding to amino acid residues 6-20 of rat 5-Hydroxytryptamine receptor 2B |
| Isotype: | IgG |
| Characteristics: | Anti-5HT2B Receptor (HTR2B) (extracellular) Antibody (ABIN7043619, ABIN7045288 and ABIN7045289)) is a highly specific antibody directed against an epitope of the rat 5-HT-2B receptor. The antibody can be used in western blot and immunohistochemistry applications. It recognizes an extracellular epitope and can potentially detect 5HT2B receptor in living cells. It has been designed to recognize 5-hydroxytryptamine receptor 2B from rat, mouse and human samples. |
| Purification: | Affinity purified on immobilized antigen. |

## Target Details

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| Target: | Serotonin Receptor 2B (HTR2B) |
| Alternative Name: | 5HT2B Receptor (HTR2B) (HTR2B Products) |
| Background: | Alternative names: 5HT2B Receptor (HTR2B), 5-Hydroxytryptamine receptor 2B, Serotonin receptor 2B, 5-HT-2B, 5-HT2F, Stomach fundus serotonin receptor |
| Gene ID: | 29581 |
| NCBI Accession: | NM_000867 |
| UniProt: | P30994 |
| Pathways: | JAK-STAT Signaling, Inositol Metabolic Process, Regulation of G-Protein Coupled Receptor Protein Signaling, Regulation of Carbohydrate Metabolic Process |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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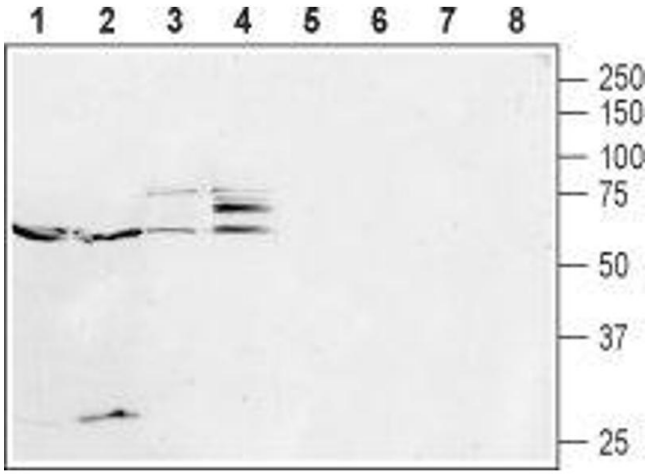
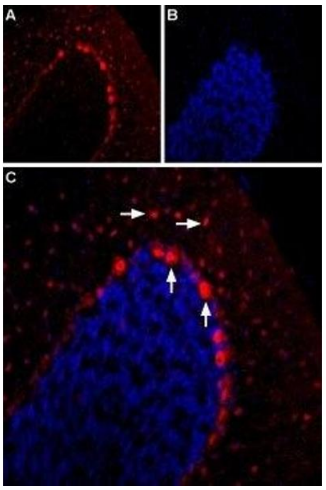
| Format: | Lyophilized |
| Reconstitution: | 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size. |
| Concentration: | 0.8 mg/mL |
| Buffer: | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | RT,4 °C,-20 °C |
| Storage Comment: | Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.<br>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min). |




## Western Blotting

**Image 1.** Western blot analysis of mouse brain (lanes 1 and 5), rat brain (lanes 2 and 6), rat uterus (lanes 3 and 7) and SH-SY5Y cell (lanes 4 and 8) lysates: - 1-4. Anti-5HT2B Receptor (HTR2B) (extracellular) Antibody (ABIN7043619, ABIN7045288 and ABIN7045289), (1:200).5-8. Anti-5HT2B Receptor (HTR2B) (extracellular) Antibody, preincubated with 5HT2B Receptor/HTR2B (extracellular) Blocking Peptide (#BLP-SR035).




## Immunohistochemistry

**Image 2.** Expression of 5-Hydroxytryptamine receptor 2B in mouse cerebellum - Immunohistochemical staining of mouse cerebellum using Anti-5HT2B Receptor (HTR2B) (extracellular) Antibody (ABIN7043619, ABIN7045288 and ABIN7045289) (1:400). A. 5-HT2B staining (red), appears in neurons of the Purkinje layer (vertical arrows) and in the molecular layer (horizontal arrow). B. Nuclear staining using DAPI as the counterstaining (blue). C. Merged image of panels A and B.