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# 5HT3A Receptor Rabbit pAb

Catalog # AP96732

## Product Information

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| **Application** | WB |
| **Primary Accession** | P46098 |
| **Other Accession** | P46098 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 55280 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human 5-HTR3 |
| **Epitope Specificity** | 81-180/478 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the G-protein coupled receptor 1 family. |
| **SUBUNIT** | Forms pentahomomeric complex as well as pentaheteromeric complex with HTR3B or HTR3C or HTR3D or HTR3E; homomeric complex is functional but exhibits low conductance with modified voltage dependence, and decreased agonist and antagonist affinity. Interacts with RIC3. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. It appears that the heteromeric combination of A and B subunits is necessary to provide the full functional features of this receptor, since either subunit alone results in receptors with very low conductance and response amplitude. Alternatively spliced transcript variants encoding different isoforms have been identified. Expressed in cerebral cortex, amygdala, hippocampus, and testis. Detected in monocytes of the spleen and tonsil, in small and large intestine, uterus, prostate, ovary and placenta. Belongs to the ligand-gated ionic channel (TC 1.A.9) family. |

## Additional Information

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| **Gene ID** | 3359 |
| **Other Names** | 5-HT-3; 5-HT3A; 5-HT3R; 5HT3R; HTR3; 5-HT3; 5HT3; 5HT3A_HUMAN; HTR3A; 5-HT3-A; 5-hydroxytryptamine receptor 3 (5-HT-3 \| 5-HT3R); Serotonin receptor 3A; Serotonin-gated ion channel receptor; 5HT3A_MOUSE; 5HT3A_RAT; 5-hydroxytryptamine receptor 3A; 5-hydroxytryptamine (serotonin) receptor 3A; 5-hydroxytryptamine (serotonin) receptor 3A, |

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| | ionotropic |
| **Dilution** | WB=1:500-2000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | HTR3A ( HGNC:5297) |
| **Synonyms** | 5HT3R, HTR3 |
| **Function** | Forms serotonin (5-hydroxytryptamine/5-HT3)-activated cation- selective channel complexes, which when activated cause fast, depolarizing responses in neurons. |
| **Cellular Location** | Postsynaptic cell membrane; Multi-pass membrane protein {ECO:0000250\|UniProtKB:P23979}. Cell membrane; Multi-pass membrane protein {ECO:0000250\|UniProtKB:P23979} |
| **Tissue Location** | Expressed in cerebral cortex, amygdala, hippocampus, and testis. Detected in monocytes of the spleen and tonsil, in small and large intestine, uterus, prostate, ovary and placenta. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.