

Product datasheet for **TA336339**

5HT3A receptor (HTR3A) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, Simple Western, WB
Recommended Dilution:	Western Blot: 3 ug/ml, Immunohistochemistry-Paraffin: 5 ug/ml, Immunohistochemistry: 1:20-1:1000, Simple Western: 1:50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This antibody was developed by immunizing rabbits with a mixture of synthetic peptides corresponding to amino acids 27-42 (RATQAHSTTQPALLRL) and 427-442 (LSSIRHSLEKRDEMRE) of rat 5-HT3 Receptor, accession number P35563.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	5-hydroxytryptamine receptor 3A
Database Link:	NP_998786 Entrez Gene 15561 Mouse Entrez Gene 79246 Rat Entrez Gene 3359 Human P46098



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Background:

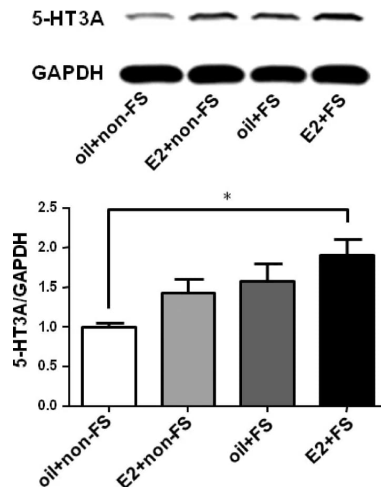
Serotonin (5-hydroxytryptamine, 5-HT), originally discovered as a serum factor plays important roles in regulating diverse biological processes in central and peripheral nervous systems, cardiovascular systems, and gastrointestinal systems. The 5-HT₃ receptors are distinguished from other 5-HT receptors by their structure and function. 5-HT₃ receptors span the membrane only four times and are ligand-gated, cation-selective ion channels that mediate neuronal excitation and exocytotic release of neurotransmitters within the peripheral and central nervous systems. Functional studies done on isolated tissues have revealed heterogeneity of this receptor. The human 5-HT₃Rs cDNA contains an open reading frame of 1434 base pairs predicting a 23-residue signal peptide and a mature receptor subunit of 455 amino acids. The human subunit exhibits 85% and 84% amino acid sequence identity to the mouse and rat receptors, respectively. Anti-5-HT₃R polyclonal antibody shows immunoreactivity in the forebrain (olfactory regions, hippocampal formation and amygdala), sensory and motor nuclei of brainstem and spinal cord.

Synonyms:

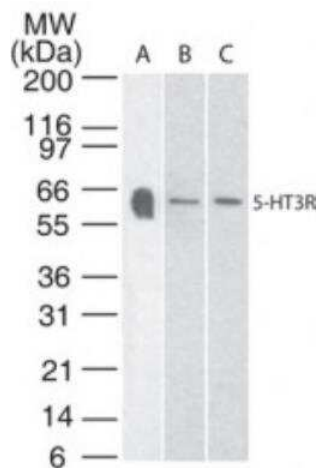
5-HT-3; 5-HT3A; 5-HT3R; 5HT3R; HTR3

Protein Families:

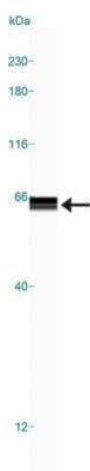
Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Product images:


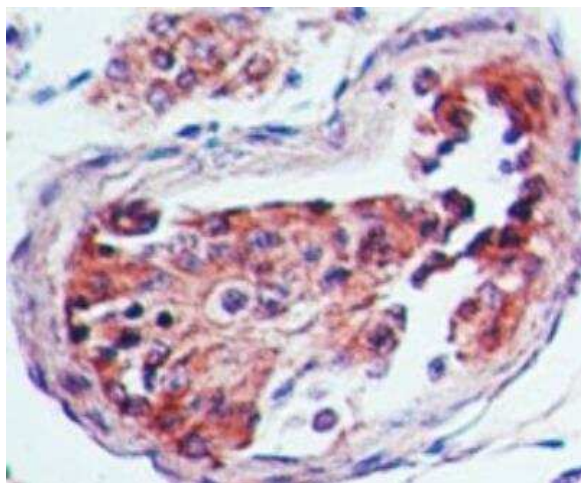
The expression of 5-HT₃A receptor increased in the E2 + FS group compared to that in the oil + non-FS group. *P < 0.05 versus the oil + non-FS group. E2: estradiol; FS: forced swim.



Western Blot: 5-HT3A Antibody TA336339 - Analysis of 5-HT3A in A: human, B: mouse and C: rat brain tissue lysate using 5-HT3A antibody at 3 ug/mL.



Simple Western: 5-HT3A Antibody TA336339 - Image shows a specific band for 5HT3A in 0.5 mg/mL of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Immunohistochemistry-Paraffin: 5-HT3A Antibody TA336339 - Analysis of 5-HT3A in human testis using 5-HT3A antibody at 5 ug/mL.