

Datasheet for 200-401-I12**Serotonin Receptor 3A Antibody****Overview**

Description:	Anti-Serotonin Receptor 3A (RABBIT) Antibody - 200-401-I12
Item No.:	200-401-I12
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background: Anti-Serotonin Receptor 3A Antibody detect rat Serotonin Recepto 3A. 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. A 5-HT₃ receptor is distinguished from other 5-HT receptors by its 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-HT₃ Receptor Alpha subunits 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. 5-HT₃ Receptor polyclonal antibody shows immunoreactivity in the forebrain (olfactory regions, hippocampal formation and amygdala), sensory and motor nuclei of brainstem and spinal cord. Anti-Serotonin Receptor 3A Antibody is ideal for investigators involved neurobiology research.

Synonyms:	5-HT ₃
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name: Htr3a

Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Serotonin Receptor 3A Antibody was produced from whole rabbit serum prepared by repeated immunizations with a mixture of synthetic peptides corresponding to two internal amino acid sequences in rat 5-HT1BR protein.
Purity/Specificity:	Anti-Serotonin Receptor 3A Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Serotonin Receptor 3A from human, mouse, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Serotonin Receptor 3A from other sources has not been determined.
Relevant Links:	• UniProtKB - Q62999 • NCBI - NP_077370.2 • GeneID - 79246

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Serotonin Receptor 3A Antibody is tested for use in IHC and WB. Expect a band approximately 63kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:500-1:1000

Formulation

Physical State:	Liquid
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

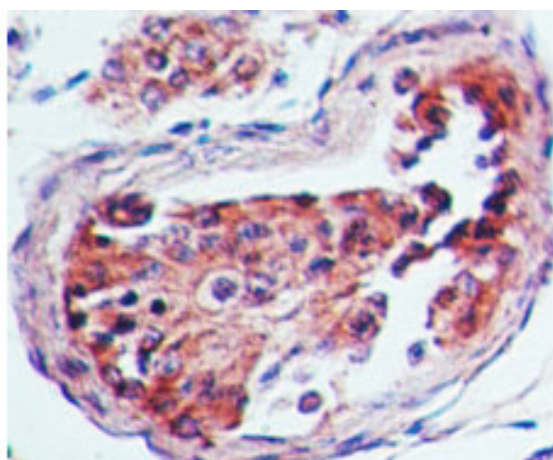
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

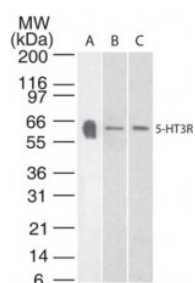
Images



Immunohistochemistry

Immunohistochemistry of Rabbit Anti-Serotonin Receptor 3A antibody. Tissue: human testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Serotonin Receptor 3A antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT.

Staining: Serotonin Receptor 3A as a precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Rabbit Anti-Serotonin Receptor 3A antibody.

Lane A: human. Lane B: mouse. Lane C: rat brain tissue lysate. Primary antibody: Serotonin Receptor 3A at 3 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for Serotonin Receptor 3A. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.