

**Anti-5HT3A receptor Picoband Antibody**  
**Catalog # ABO10246****Specification**

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**Anti-5HT3A receptor Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P46098</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for 5-hydroxytryptamine receptor 3A(HTR3A) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-5HT3A receptor Picoband Antibody - Additional Information**

**Gene ID** 3359

**Other Names**

5-hydroxytryptamine receptor 3A, 5-HT3-A, 5-HT3A, 5-hydroxytryptamine receptor 3, 5-HT-3, 5-HT3R, Serotonin receptor 3A, Serotonin-gated ion channel receptor, HTR3A, 5HT3R, HTR3

**Calculated MW**

55280 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.

**Tissue Specificity**

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. .

**Protein Name**

5-hydroxytryptamine receptor 3A

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human 5HT3A receptor (72-108aa NVDEKNQVLTTYIWYRQYWTDEFLQWNPEDFDNITK L), different from the related mouse

sequence by two amino acids, and from the related rat sequence by three amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-5HT3A receptor Picoband Antibody - Protein Information**

**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}

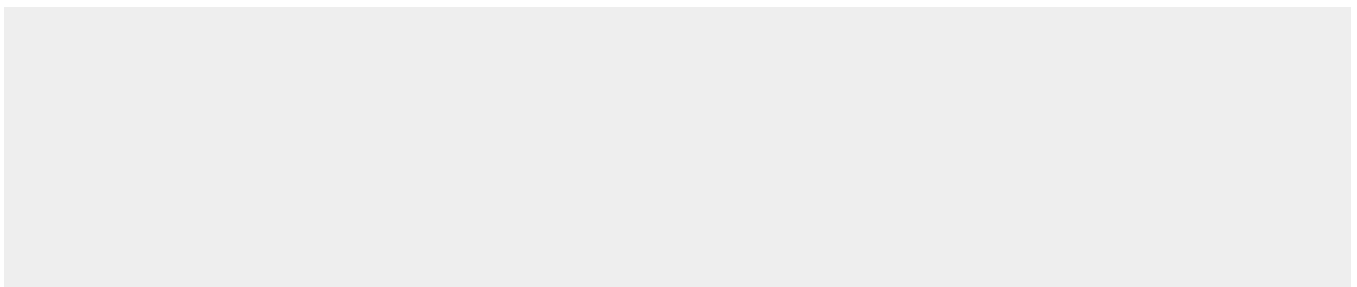
**Tissue Location**

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.

**Anti-5HT3A receptor Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-5HT3A receptor Picoband Antibody - Images**

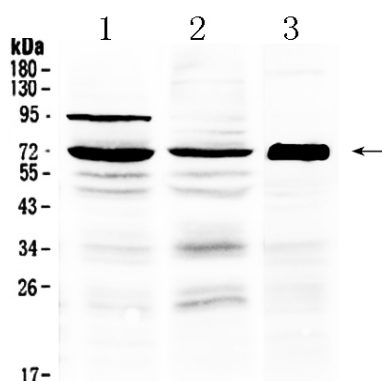


Figure 1. Western blot analysis of 5HT3A receptor using anti-5HT3A receptor antibody (ABO10246). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat testis tissue lysates, Lane 2: mouse testis tissue lysates, Lane 3: human placenta tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-5HT3A receptor antigen affinity purified polyclonal antibody (Catalog # ABO10246) at 0.5  $\mu$ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for 5HT3A receptor at approximately 72KD. The expected band size for 5HT3A receptor is at 55KD.

#### Anti-5HT3A receptor Picoband Antibody - Background

5-hydroxytryptamine receptor 3A is a protein that in humans is encoded by the HTR3A gene. 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.