

Datasheet for ABIN7043615

**anti-Serotonin Receptor 1A antibody (AA 251-266)**[Go to Product page](#)**2** Images

## Overview

Quantity:	25 µL
Target:	Serotonin Receptor 1A (HTR1A)
Binding Specificity:	AA 251-266
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Serotonin Receptor 1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Purpose:	A Rabbit Polyclonal Antibody to 5-Hydroxytryptamine Receptor 1A
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: KKSLNGQPGSGDWRRRC, corresponding to amino acid residues 251-266 of rat 5-Hydroxytryptamine receptor 1A
Isotype:	IgG
Specificity:	3rd intracellular loop
Cross-Reactivity:	Mouse, Rat
Cross-Reactivity (Details):	Will not recognize human 5-hydroxytryptamine receptor 1A.
Predicted Reactivity:	Mouse - identical
Characteristics:	Anti-5HT1A Receptor (HTR1A) Antibody is directed against an intracellular epitope of the rat 5-

## Product Details

Hydroxytryptamine receptor 1A. Anti-5HT1A Receptor (HTR1A) Antibody (ABIN7043615, ABIN7045278 and ABIN7045279) can be used for western blot and immunohistochemistry applications. It has been designed to recognize 5HT1A receptor from rat and mouse samples.

Purification: Affinity purified on immobilized antigen.

## Target Details

Target: Serotonin Receptor 1A (HTR1A)

Alternative Name: HTR1A ([HTR1A Products](#))

Background: 5-Hydroxytryptamine receptor 1A, Serotonin receptor 1A, Serotonin (5-hydroxytryptamine, 5-HT1) is an important neurotransmitter in the central nervous system (CNS) that exerts its neuronal activity via 5-HT receptors. 5-HT receptors are subdivided into seven families termed 5-HT1 through 5-HT7.1 The 5-HT receptor families belong to the G-protein coupled receptor superfamily with the exception of 5-HT3 receptor class which belongs to the ligand-gated ion channels.2The 5-HT1 receptor class comprises of five different receptors (5-HT1A, 5-HT1B, 5-HT1D, 5-HT1E and 5-HT1F) which share 41-63 % overall sequence identity and couple preferentially to Gi/Go to inhibit cAMP formation.2The 5-HT1A receptor is the most widespread of all the 5-HT receptors. In the CNS, 5-HT1A receptors exist in the cerebral cortex, hippocampus, septum, amygdala and raphe nucleus in high densities, and was also demonstrated in a variety of tissues from various species.2,3 Activation of 5-HT1A receptor decreases blood pressure and heart rate, and is involved in learning, memory, relieving anxiety and depression.1,4

Alternative names: 5HT1A Receptor (HTR1A), 5-Hydroxytryptamine receptor 1A, Serotonin receptor 1A

Gene ID: 24473

NCBI Accession: [NM\\_000524](#)

UniProt: [P19327](#)

Pathways: [JAK-STAT Signaling](#), [Synaptic Membrane](#), [Feeding Behaviour](#)

## Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody  
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:100

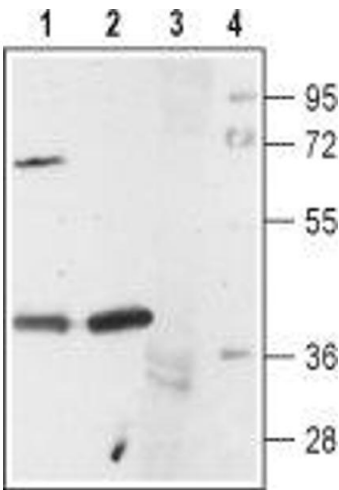
Application Details

	Application Dilutions Western blot wb: 1:200
Comment:	Cited Application: IP Negative Control: (ABIN7236780) Blocking Peptide: (ABIN7236780)
Restrictions:	For Research Use only

Handling

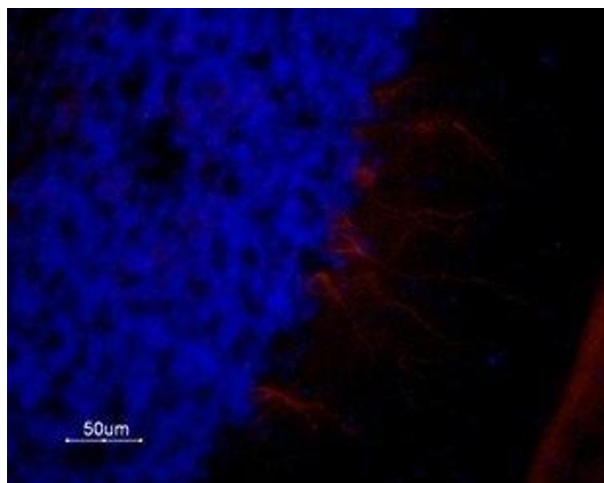
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after 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).

Images



**Western Blotting**

**Image 1.** Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain membranes: - 1,2. Anti-5HT1A Receptor (HTR1A) Antibody (ABIN7043615, ABIN7045278 and ABIN7045279), (1:200).3,4. Anti-5HT1A Receptor (HTR1A) Antibody, preincubated with 5HT1A Receptor/HTR1A Blocking Peptide (#BLP-SR021).



#### Immunohistochemistry

**Image 2.** Expression of 5-Hydroxytryptamine receptor 1A in rat cerebellum - Immunohistochemical staining of rat cerebellum frozen section using Anti-5HT1A Receptor (HTR1A) Antibody (ABIN7043615, ABIN7045278 and ABIN7045279), (1:100). 5-HT1A is expressed in Purkinje cells (red). Hoechst 33342 is used as the counterstain.