

Datasheet for ABIN7581898
anti-HTR2A antibody (Extracellular)



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Overview

Quantity:	50 µL
Target:	HTR2A
Binding Specificity:	AA 40-52, Extracellular
Reactivity:	Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This HTR2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	A Guinea Pig Polyclonal Antibody to 5-HT2A Receptor
Immunogen:	(C)SEASNWTIDAENR, corresponding to amino acid residues 40-52 of rat 5-Hydroxytryptamine receptor 2A
Sequence:	(C)SEASNWTIDA ENR
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Predicted Reactivity:	Mouse - identical, human - 9 out of 13 amino acid residues identical
Characteristics:	Guinea Pig Anti-5HT2A Receptor (HTR2A) (extracellular) Antibody (ABIN7581898) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize 5-

Product Details

HT2A from mouse, rat and human samples. The antigen used to immunize guinea pigs is the same as Anti-5HT2A Receptor (HTR2A) (extracellular) (ABIN7042875, ABIN7045286 and ABIN7045287) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation and more.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: HTR2A

Alternative Name: HTR2A ([HTR2A Products](#))

Background: 5-Hydroxytryptamine receptor 2A, Serotonin receptor 2A, 5-HT_{2A}, 5-HT is involved in a diverse array of physiological and biological processes. In the brain, 5-HT affects sleep, mood, appetite, anxiety, aggression, perception, pain, and cognition¹. Signaling of 5-HT is mediated by receptors that are located on the cell membrane of neurons and most other cells in the body. The 5-HT₂ family consists of three G-protein coupled receptors (GPCRs): 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C}. They are transmembrane proteins consisting of seven membrane-spanning α -helical segments with an extracellular N-terminus and an intracellular C-terminus. The binding of 5-HT to one of its receptors is thought to elicit a conformational change that activates associated heterotrimeric G proteins and recruits other downstream signaling/scaffolding molecules, such as GPCR kinases and β -arrestins. 5-HT_{2A} receptors have been found in many regions of the human brain including the cortex, brainstem, olfactory bulb, limbic system and basal ganglia³. The 5-HT_{2A} receptor has been implicated in many mental disorders including schizophrenia, depression, obsessive compulsive disorder (OCD), attention deficit-hyperactivity disorder (ADHD), and eating disorders such as anorexia nervosa and autism spectrum disorders⁴.

Gene ID: 29595

UniProt: [P14842](#)

Pathways: [JAK-STAT Signaling](#), [Inositol Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: Antigen preadsorption control: 1 μ g peptide per 1 μ g antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:400
Application Dilutions Western blot wb: 1:200

Application Details

Comment:	Negative Control: (ABIN7234591) Blocking Peptide: (ABIN7234591)
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).
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