

Datasheet for ABIN738006

anti-Serotonin Receptor 1A antibody (AA 301-400)

4 Images

3 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Serotonin Receptor 1A (HTR1A)
Binding Specificity:	AA 301-400
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Serotonin Receptor 1A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat 5-HTR1A
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Serotonin Receptor 1A (HTR1A)
---------	-------------------------------

Target Details

Alternative Name:	5-HTR1A (HTR1A Products)
Background:	<p>Synonyms: 5HT1A, RAT5HT1A, 5-hydroxytryptamine receptor 1A, 5-HT-1A, 5-HT1A, Serotonin receptor 1A, Htr1a</p> <p>Background: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores. Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5-hydroxytryptamine metabolism. Plays a role in the regulation of dopamine and 5-hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior. Plays a role in the response to anxiogenic stimuli.</p>
Gene ID:	24473
UniProt:	P19327
Pathways:	JAK-STAT Signaling , Synaptic Membrane , Feeding Behaviour

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

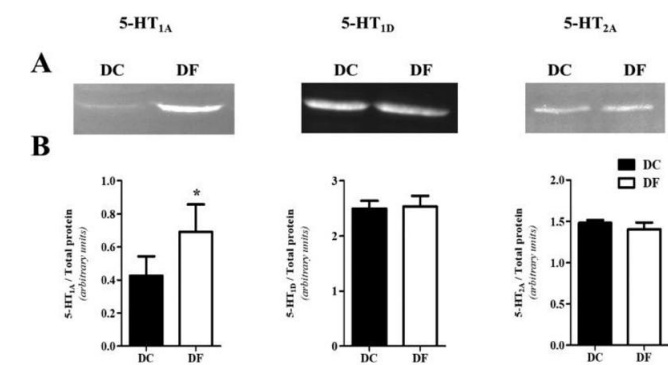
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	<p>García-Pedraza, Fernández-González, López, Martín, Alarcón-Torrecillas, Rodríguez-Barbero, Morán, García-Domingo: "Oral fluoxetine treatment changes serotonergic sympatho-regulation in experimental type 1 diabetes." in: Life sciences, Vol. 293, pp. 120335, (2022) (PubMed).</p> <p>Yeh, Weng, Chang, Chan, Huang, Chu, Wei, Ma, Cheng, Ma, Chen, Shyu: "Calcitonin alleviates hyperalgesia in osteoporotic rats by modulating serotonin transporter activity." in: Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA, Vol. 27, Issue 11, pp. 3355-3364, (2016) (PubMed).</p> <p>Zhou, Wu, Zhou, Liu, Lee, Liu, Devkota, Ro, Zhu, Suh: "Reactivation of Tert in the medial prefrontal cortex and hippocampus rescues aggression and depression of Tert(-/-) mice." in: Translational psychiatry, Vol. 6, Issue 6, pp. e836, (2016) (PubMed).</p>
-------------------	--

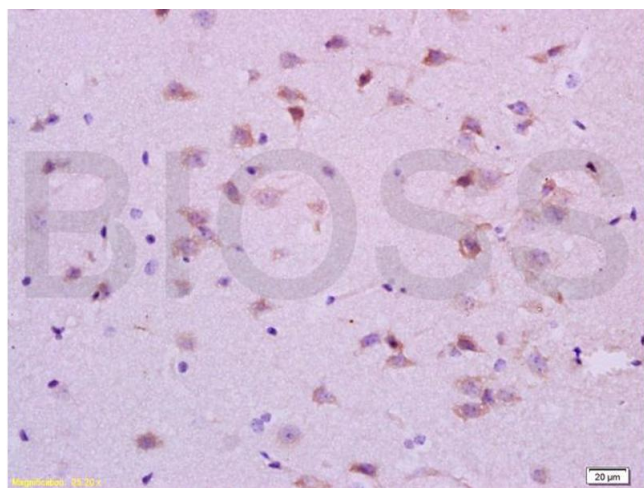


Western Blotting

Image 1. 5-HT_{1A}/1D/2A receptor expression in thoracic aortas from control (DC) and fluoxetine-treated (DF) diabetic rats by Western blot. A representative blot of total protein extracts from four independent experiments is shown, using total amount of protein as a loading control (A). Blots were assessed by densitometric analysis. The ratio of 5-HT receptors expression vs total protein is outlined in the graph (B). All values are represented as mean \pm SEM. *p < 0.05 vs DC values. Source: PMID35051421

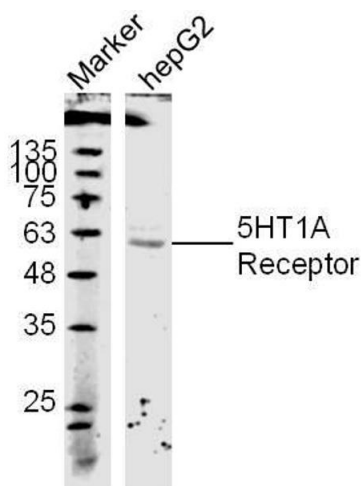
Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Anti-5-HTR1A/HTR1A Polyclonal Antibody, Unconjugated (ABIN738006) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Western Blotting

Image 3. (Human Cell line) HepG2 lysates probed with 5-HTR1A Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 60 minutes at 37°C.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN738006.