Serotonin receptor 5HT_{1A} polyclonal antibody

Serotonin (5-hydroxytryptamine, 5-HT) is a monoamine found in the central nervous system, gastrointestinal tract, and blood with broad physiological functions as a neurotransmitter, in gastric motility, hemostasis, and cardiovascular integrity. Seven subclasses (5-HT 1-7) of serotonin receptors have been identified, a majority of which are members of the seven transmembrane domain-containing G-protein coupled receptor (GPCR) family, and are the target of several anti-depressant drugs. The 5-HT1 subclass consists of five highly homologous receptors that couple via G(i/o) alpha subunits to inhibit adenylyl cyclase activity. The 5-HT1A receptor gene is 99% homologous between human and mouse, and is expressed from an intronless gene with a predicted length of 421 amino acids. 5-HT1A receptor activation is generally inhibitory to cAMP production, but may also stimulate type II adenylyl cyclase activity in a cellspecific manner via release of G(beta/gamma) subunits when coupled to G(i2). 5-HT1A expression in mammals is strongest in CNS limbic pathways that control emotion, including tissue of the hippocampus, dorsal raphé, and septum.

This antibody is covered by our Worry-Free Guarantee.

Citations: 4

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Ordering Information

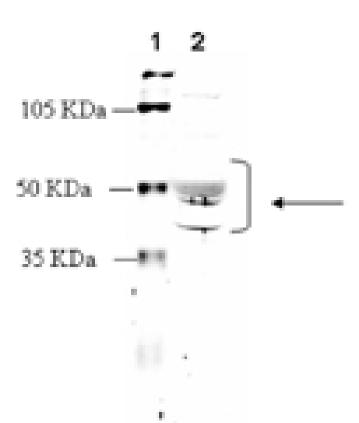
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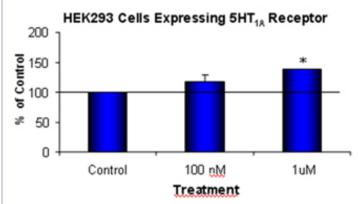
ADI-905-741-100

100µg

Manuals, SDS & CofA

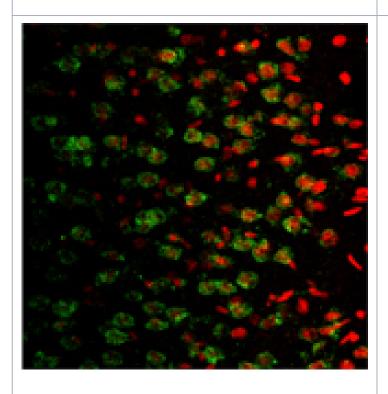
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Cellular ELISA: HEK293 cells expressing serotonin receptor 5HT1A were treated with indicated concentrations of agonist (DPAT) and probed with Serotonin Receptor (5HT $_{1A}$) pAb (1:1000 of a stock solution of 1µg/µL) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean \pm SEM (n=3).

Western blot analysis: MW marker (1) and 20µg rat brain extract (2) probed with Serotonin Receptor (5HT1A) pAb at 2µg/ml.



Immunohistochemistry analysis: Fluorescent confocal photomicrograph of rat brain cortex fixed in 100% methanol was stained with propidium iodide (red) and Serotonin Receptor (5HT_{1A}) pAb (green) at 1:1000.

Handling & Storage

Handling Keep on ice at all times.

Long Term Storage -20°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name 5-hydroxytryptamine receptor, 5-HTR

Application ELISA, IHC, WB

Application NotesSuitable for cell-based and membrane-based ELISA.

Predicted MW of ~46kDa. Higher MW species (~50kDa) and intermediates also observed by Western blot which may reflect post-translational modification or dimerization

of the receptor.

Formulation Liquid. In PBS containing 50% glycerol and 0.01% sodium

azide.

Host Rabbit

Immunogen Synthetic peptide corresponding to the sequence near the

N-terminus of mouse serotonin receptor 5HT1A.

Purity Detail Peptide affinity purified.

Species Reactivity Human, Mouse, Rat

UniProt ID Q64264

Worry-free Guarantee This antibody is covered by our Worry-Free Guarantee

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