

5-HTR1A Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 80-240	Source/Isotype: Rabbit	UniProt ID: #P08908	Entrez-Gene Id: 3350
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

5-HTR1A Antibody recognizes transfected levels of total 5-HTR1A protein. Thus far, endogenous levels of 5-HTR1A have not been detected with this antibody.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human 5-HTR1A protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Serotonin (5-hydroxytryptamine/5-HT) is a monoamine found in the central nervous system. Serotonin receptors are mostly members of the G Protein-Coupled Receptor (GPCR) superfamily. GPCRs are a family of cell surface receptors containing seven transmembrane proteins. GPCRs activate signal transduction pathways and cyclic AMP formation (1). Seven subclasses of serotonin receptors (5-HTR) have been described (5-HTR1-7). There are five subclasses of 5-HTR1 (1A, 1B, 1D, 1E, and 1F). 5-HTR1A is an inhibitory GPCR expressed both in serotonergic neurons and in target areas receiving serotonergic innervation. These receptors are associated with depression, anxiety, and the response to antidepressants (2).

Background References

1. Mastrangelo, L. et al. (2008) *Cancer Res* 68, 5487-91.
2. Fisher, P.M. et al. (2006) *Nat Neurosci* 9, 1362-3.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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