

**Htr1a (mouse) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3581a**Specification****Htr1a (mouse) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P08908</a>
Other Accession	<a href="#">NP_032334.2</a> , <a href="#">3350</a> , <a href="#">15550 (mouse)</a> , <a href="#">24473 (rat)</a>
Reactivity	Mouse
Predicted	Human, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	46107

**Htr1a (mouse) Antibody (internal region) - Additional Information**

**Gene ID** 3350

**Other Names**

5-hydroxytryptamine receptor 1A, 5-HT-1A, 5-HT1A, G-21, Serotonin receptor 1A, HTR1A, ADRB2RL1, ADRBRL1

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Htr1a (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Htr1a (mouse) Antibody (internal region) - Protein Information**

**Name** HTR1A ([HGNC:5286](#))

**Synonyms** ADRB2RL1, ADRBRL1

**Function**

G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:[22957663](http://www.uniprot.org/citations/22957663)), PubMed:[3138543](http://www.uniprot.org/citations/3138543)), PubMed:[3138543](http://www.uniprot.org/citations/3138543))

href="http://www.uniprot.org/citations/33762731" target="\_blank">33762731</a>, PubMed:<a href="http://www.uniprot.org/citations/37935376" target="\_blank">37935376</a>, PubMed:<a href="http://www.uniprot.org/citations/37935377" target="\_blank">37935377</a>, PubMed:<a href="http://www.uniprot.org/citations/8138923" target="\_blank">8138923</a>, PubMed:<a href="http://www.uniprot.org/citations/8393041" target="\_blank">8393041</a>). Also functions as a receptor for various drugs and psychoactive substances (PubMed:<a href="http://www.uniprot.org/citations/22957663" target="\_blank">22957663</a>, PubMed:<a href="http://www.uniprot.org/citations/3138543" target="\_blank">3138543</a>, PubMed:<a href="http://www.uniprot.org/citations/33762731" target="\_blank">33762731</a>, PubMed:<a href="http://www.uniprot.org/citations/38552625" target="\_blank">38552625</a>, PubMed:<a href="http://www.uniprot.org/citations/8138923" target="\_blank">8138923</a>, PubMed:<a href="http://www.uniprot.org/citations/8393041" target="\_blank">8393041</a>). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:<a href="http://www.uniprot.org/citations/22957663" target="\_blank">22957663</a>, PubMed:<a href="http://www.uniprot.org/citations/3138543" target="\_blank">3138543</a>, PubMed:<a href="http://www.uniprot.org/citations/33762731" target="\_blank">33762731</a>, PubMed:<a href="http://www.uniprot.org/citations/8138923" target="\_blank">8138923</a>, PubMed:<a href="http://www.uniprot.org/citations/8393041" target="\_blank">8393041</a>). HTR1A is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission: signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores (PubMed:<a href="http://www.uniprot.org/citations/33762731" target="\_blank">33762731</a>, PubMed:<a href="http://www.uniprot.org/citations/35610220" target="\_blank">35610220</a>). Beta-arrestin family members regulate signaling by mediating both receptor desensitization and resensitization processes (PubMed:<a href="http://www.uniprot.org/citations/18476671" target="\_blank">18476671</a>, PubMed:<a href="http://www.uniprot.org/citations/20363322" target="\_blank">20363322</a>, PubMed:<a href="http://www.uniprot.org/citations/20945968" target="\_blank">20945968</a>). Plays a role in the regulation of 5- hydroxytryptamine release and in the regulation of dopamine and 5- hydroxytryptamine metabolism (PubMed:<a href="http://www.uniprot.org/citations/18476671" target="\_blank">18476671</a>, PubMed:<a href="http://www.uniprot.org/citations/20363322" target="\_blank">20363322</a>, PubMed:<a href="http://www.uniprot.org/citations/20945968" target="\_blank">20945968</a>). Plays a role in the regulation of dopamine and 5- hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior (PubMed:<a href="http://www.uniprot.org/citations/18476671" target="\_blank">18476671</a>, PubMed:<a href="http://www.uniprot.org/citations/20363322" target="\_blank">20363322</a>, PubMed:<a href="http://www.uniprot.org/citations/20945968" target="\_blank">20945968</a>). Plays a role in the response to anxiogenic stimuli (PubMed:<a href="http://www.uniprot.org/citations/18476671" target="\_blank">18476671</a>, PubMed:<a href="http://www.uniprot.org/citations/20363322" target="\_blank">20363322</a>, PubMed:<a href="http://www.uniprot.org/citations/20945968" target="\_blank">20945968</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:P19327}

### Tissue Location

Detected in lymph nodes, thymus and spleen. Detected in activated T-cells, but not in resting T-cells

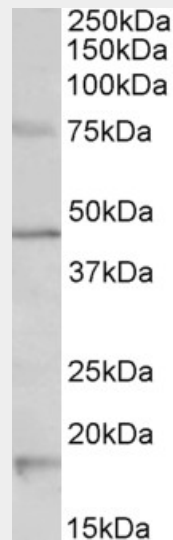
### Htr1a (mouse) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Htr1a (mouse) Antibody (internal region) - Images**



AF3581a (1  $\mu\text{g/ml}$ ) staining of Mouse Brain lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Htr1a (mouse) Antibody (internal region) - References**

The HTR1A and HTR1B receptor genes influence stress-related information processing. Mekli K, Payton A, Miyajima F, Platt H, Thomas E, Downey D, Lloyd Williams K, Chase D, Toth ZG, Elliott R, Ollier WE, Anderson IM, Deakin JF, Bagdy G, Juhasz G. Eur Neuropsychopharmacol. 2011 Jan;21(1):129-39. PMID: 20638825