



## 5HT 1A Receptor

## Data Sheet

<b>Catalog Number:</b>	RA24504	<b>Host:</b>	Rabbit
<b>Product Type:</b>	Affinity Purified	<b>Species Reactivity:</b>	Mouse, Rat, Human
<b>Immunogen Sequence:</b>	synthetic peptide sequence corresponding to amino acids 294-312 of the rat 5-HT1A receptor	<b>Format:</b>	100 µl of affinity purified serum containing 1% BSA.
<b>Applications:</b>	<b>Immunohistochemistry:</b> 1:200 – 1:400 using indirect immunofluorescence 1:200-1:600 using biotin/streptavidin HRP technique in rat raphe nuclei, hypothalamus, cortex, and spinal cord <b>Western Blot:</b> analysis using rat brain extracts of cortex, hypothalamus, midbrain, and hindbrain, the antibody specifically labels a single band. Immunolabeling is completely abolished by pre-adsorption with synthetic rat 5HT transporter (579-599).		

**Storage and Preparation:** Storage: Unopened vial at 2-8° C. Antibody can be stored for up to six months

It is strongly recommended that the customer perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system as used in our protocol may change the configuration of the protein and, therefore, may alter the reactivity with the tissue tested.

### Application Notes for Immunohistochemistry

Antigen: rat 5-HT1A receptor (294-312) coupled to bovine thyroglobulin with glutaraldehyde.

Control Tissue: Rat cortex, hippocampus.

Perfusion Fixation: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over approximately 20 minutes.

Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4.

Note: If needed, low levels of glutaraldehyde (0.1 - 0.3%) may be used in conjunction with paraformaldehyde.  
 Sections: 50 µm vibratome.

Antibody Dilution: 1/300 - 1/500 in PBS - Bn-SA/HRP detection

Note: Use of Triton X-100 or other detergents is not recommended.

Incubation on Tissue: 16 hours at 4°C.

**Detection System:** Bn-SA/HRP - Use biotin-streptavidin/HRP at dilutions recommended by the manufacturer.

### References

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Neuromics' reagents are for in vitro and certain non-human in vivo experimental use only and not intended for use in any human clinical investigation, diagnosis, prognosis, or treatment. We disclaim all liability in connection with the use of the information contained herein or otherwise, and all such risks are assumed by the user.

Burnet PW, Eastwood SL, Lacey K, Harrison PJ. The distribution of 5-HT1A and 5-HT2A receptor mRNA in human brain. *Brain Research*. 676(1):157-68, 1995

Chalmer DT and Watson SJ. Comparative anatomical distribution of 5-HT1A receptor mRNA and 5-HT1A binding in rat brain-a combined in situ hybridization/in vitro receptor autoradiography study. *Brain Research* 561:51-60, 1991.

Kia HK, Miquel MC, Brisorgueil MJ, Daval G, Riad M, El Mestikaqy S, Hamon M, Verge D. Immunocytochemical localization of serotonin 1A receptors in the rat central nervous system. *J. Comp. Neurology* 365(2):289-305, 1996.

Kongins PN, Shahid M, van Alebeek C, Makkink WK, Stam NJ, Ruijt GS, Vanderheyden PM. Combined in situ hybridization, northern blot analysis and receptor binding studies in clones expressing different levels of the human 5-HT1A receptor. *J. Receptor & Signal Transduction Research*. 15(1-4):443-55, 1995.

Raymond JR, Kim J, Beach RE, Tisher CC. Immunohistochemical mapping of cellular and subcellular distribution of 5-HT1A receptors in rat human kidneys. *Am. J. Physiol.*264:F9-F19, 1993.

Wright DE, Seroogy KB, Lundgren KH, Davis BM, Jennes L. Comparative localization of serotonin 1A, 1C and 2 receptor subtype mRNAs in rat brain. *J. Comp. Neurol.*351:357-373, 1995.

#### **Reagents Containing Sodium Azide**

**CAUTION:** This reagent contains sodium azide. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up. For further information, refer to "Decontamination of Laboratory Sink Drains to Remove Azide Salts," in the Manual Guide-Safety Management No. CDC-22 issued by the Centers for Disease Control and Prevention, Atlanta, GA, 1976.

#### **European Communities Hazardous Substance Risk Phrases (Council Directive 88/379/EEC)**

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R32 - Contact with acids liberates very toxic gas.

S28 - After contact with skin, wash immediately with plenty of water.

**This product contains dry natural rubber.**

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