

# Product Datasheet

## 5-HT1A Antibody - BSA Free NBP2-21590

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-21590**

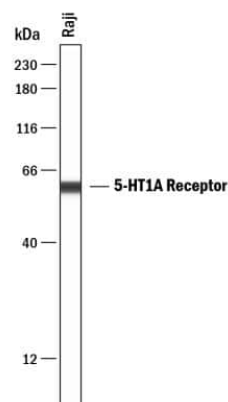
5-HT1A Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	46 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	3350
<b>Gene Symbol</b>	HTR1A
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human 5-HT1A. The exact sequence is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Simple Western, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000

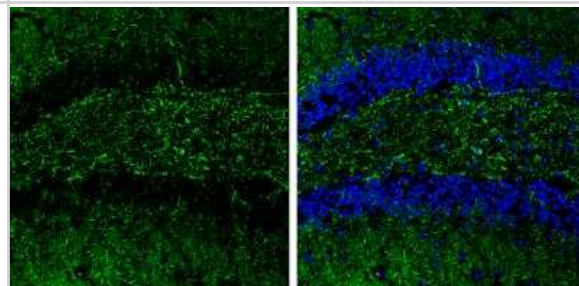


## Images

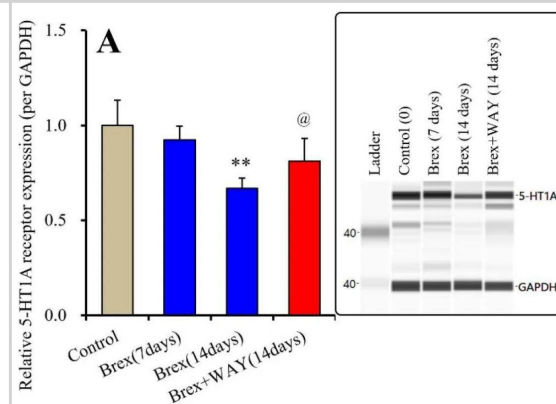
Simple Western: 5-HT1A Antibody [NBP2-21590] - Detection of 5-HT1A by Simple Western™. Simple Western lane view shows lysates of Raji cells. A specific band was detected for 5-HT1A at approximately 60 kDa (as indicated) using 1:100 of Rabbit Anti-Human 5-HT1A Polyclonal Antibody (Catalog # NBP2-21590). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



Immunohistochemistry-Frozen: 5-HT1A Antibody [NBP2-21590] - Frozen Sectioned adult mouse hippocampus. Green: 5-HT1A receptor protein stained by 5-HT1A receptor antibody [N3C1], Internal diluted at 1:250. Blue: Fluoroshield with DAPI.



Western Blot: 5-HT1A Antibody [NBP2-21590] - Effects of subchronic administration (7 and 14 days) of therapeutic relevant concentration of Brex (Brex: 300 nM) and interaction between Brex and 5-HT1A receptor (5-HT1AR) antagonist WAY (10 uM) on protein expression of 5-HT1A receptor in the plasma membrane fraction of cortical primary cultured astrocytes. In left side histograms, ordinate: mean  $\pm$  SD ( $n = 6$ ) of the relative protein level of 5-HT1AR per GAPDH. \*  $p < 0.05$ , \*\*  $p < 0.01$ : relative to control (Brex-free) by one-way analysis of variance (ANOVA) with Tukey's post-hoc test, and @  $p < 0.05$ : relative to Brex for 14 days by Student's T-test. Right side panels indicate their pseudo-gel images using capillary immunoblotting. Antibodies used: 5-HT1A (NBP2-21590) and GAPDH (NB300-327). Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/35743014/](http://pubmed.ncbi.nlm.nih.gov/35743014/)) licensed under a CC-BY license.



## Publications

T Shiroyama, K Fukuyama, M Okada Distinct Effects of Escitalopram and Vortioxetine on Astroglial L-Glutamate Release Associated with Connexin43 International Journal of Molecular Sciences, 2021-09-16;22(18):. 2021-09-16 [PMID: 34576176]

Song JH, Won SK, Eom GH et al. Improvement Effects of Myelophil on Symptoms of Chronic Fatigue Syndrome in a Reserpine-Induced Mouse Model International Journal of Molecular Sciences 2021-09-22 [PMID: 34638540] (Immunohistochemistry)

Okada M, Fukuyama K, Motomura E Dose-Dependent Biphasic Action of Quetiapine on AMPK Signalling via 5-HT7 Receptor: Exploring Pathophysiology of Clinical and Adverse Effects of Quetiapine International journal of molecular sciences 2022-08-14 [PMID: 36012369] (Simple Western, Rat)

### Details:

Dilution used 1:300

Fukuyama K, Motomura E, Okada M Brexpiprazole Reduces 5-HT7 Receptor Function on Astroglial Transmission Systems International journal of molecular sciences 2022-06-12 [PMID: 35743014] (WB, Simple Western, Rat)

Fukuyama K, Motomura E, Shiroyama T, Okada M Impact of 5-HT7 receptor inverse agonism of lurasidone on monoaminergic tripartite synaptic transmission and pathophysiology of lower risk of weight gain Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie 2022-02-24 [PMID: 35219120] (WB, Rat)





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### **Products Related to NBP2-21590**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00003350-P01-10ug	Recombinant Human 5-HT1A GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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