

Product Datasheet

5-HT1A Antibody 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

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7), 20% Glycerol
Target Molecular Weight	46 kDa

Product Description	
Host	Rabbit
Gene ID	3350
Gene Symbol	HTR1A
Species	Human, Mouse, Rat
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human 5-HT1A receptor. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen
Recommended Dilutions	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.



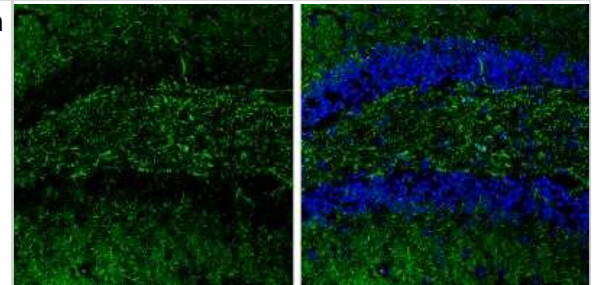
Western Blot: 5-HT1A Antibody [NBP2-21590] - Various tissue extracts (50 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with 5-HT1A receptor antibody [N3C1], Internal diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



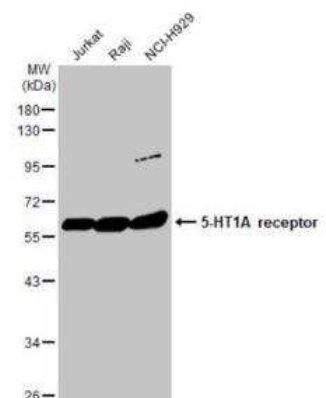
Immunocytochemistry/Immunofluorescence: 5-HT1A Antibody [NBP2-21590] - DIV14 rat E18 primary cortical neurons were fixed in 4% paraformaldehyde at RT for 15 min. Green: 5-HT1A receptor protein stained by 5-HT1A receptor antibody [N3C1], Internal diluted at 1:500. Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin 3/ Tuj1 antibody [1338] diluted at 1:500. Blue: Fluoroshield with DAPI.



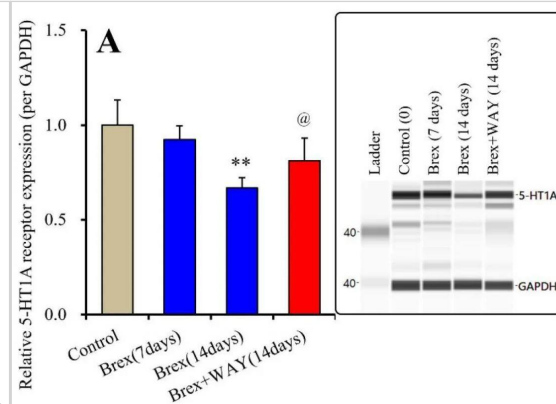
Immunohistochemistry-Frozen: 5-HT1A Antibody [NBP2-21590] - Frozen Sectioned adult mouse hippocampus. Green: 5-HT1A receptor protein stained by 5-HT1A receptor antibody [N3C1], Internal diluted at 1:250. Blue: Fluoroshield with DAPI.



Western Blot: 5-HT1A Antibody [NBP2-21590] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with 5-HT1A receptor antibody [N3C1], Internal diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody



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/](https://pubmed.ncbi.nlm.nih.gov/35743014/)) licensed under a CC-BY license.



Publications

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] (IHC)

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)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-21590

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-Q01-10ug	Recombinant Human 5-HT1A GST (N-Term) Protein

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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