

Product Datasheet

5-HT6 Antibody NBP1-46557

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-46557

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-46557



NBP1-46557**5-HT6 Antibody**

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera

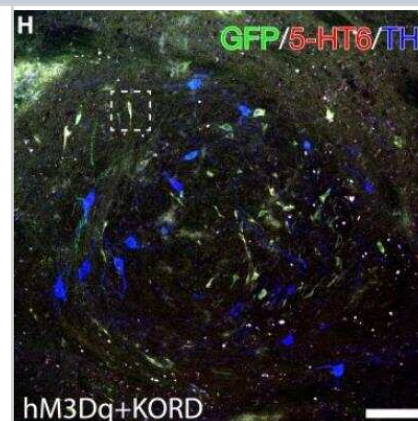
Product Description	
Host	Rabbit
Gene ID	3362
Gene Symbol	HTR6
Species	Mouse, Rat
Reactivity Notes	Rat reactivity reported in (PMID: 27161524).
Immunogen	A synthetic peptide from aa region 400-450 of mouse 5HT6R conjugated to blue carrier protein was used as the antigen.

Product Application Details	
Applications	Western Blot, Immunohistochemistry
Recommended Dilutions	Western Blot 1:300-1:2000, Immunohistochemistry 1:300-1:2000

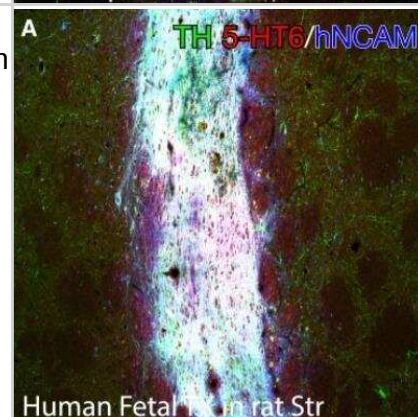


Images

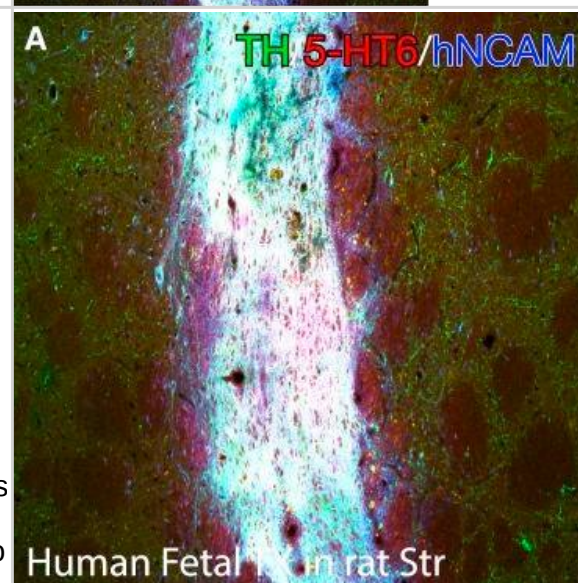
Immunohistochemistry: 5-HT6 Antibody [NBP1-46557] - LSM image showing strong expression of 5-HT6 (red) colocalized with virally transduced (green) TH (blue)-positive neurons within the dopaminergic fetal graft. Image collected and cropped by CiteAb from the following publication (linkinghub.elsevier.com/retrieve/pii/S0896627316300769), licensed under a CC-BY license.



Immunohistochemistry: 5-HT6 Antibody [NBP1-46557] - The 5-HT6 Receptor Is highly expressed in human tissue grafts originating from both fetal and hESC. Immunofluorescence staining of 5-HT6 expression in a human dopaminergic fetal graft within the rat striatum with the phenotypic staining for TH, and the identification of human NCAM, imaged using LSM. Image collected and cropped by CiteAb from the following publication (linkinghub.elsevier.com/retrieve/pii/S0896627316300769), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: 5-HT6 Antibody [NBP1-46557] - The 5-HT6 Receptor Is Highly Expressed in Human Tissue Grafts Originating from Both Fetal & hESC Sources(A–E) Immunofluorescence staining of 5-HT6 expression in a human dopaminergic fetal graft within the rat striatum (A & C) with the phenotypic staining for TH (A & B), & the identification of human NCAM (A & D), imaged using LSM. The 5-HT6 expression was confirmed to reside in DA neurons originating from the transplanted tissue (E).(F–J) Similarly, immunofluorescence staining of a paraffin-embedded section originating from the putamen of a PD patient that received a dopaminergic fetal graft, imaged using LSM, confirmed that the 5-HT6 receptor (F & H) is highly expressed in the TH-positive (F & G, with overlay in J) DA neurons originating from the fetal graft. Nuclear staining (DAPI) confirmed the 5-HT6 expression to be abundant in the neuronal soma (I).(K–O) To confirm if this receptor is also abundant in DA neurons differentiated from hESCs, a graft derived from the H9 hESC line, differentiated using the novel floor-plate-based protocol & transplanted to the parkinsonian striatum of a nude rat, was evaluated using LSM with immunofluorescence for the same genes: 5-HT6 (K & M), TH (K & L), & the human NCAM (K & N). This confirmed that this receptor is highly expressed in DA neurons also differentiated from this cell source, when transplanted to the striatum. Overlay of all three antigens confirmed the 5-HT6 receptor to reside in hESC-derived DA neurons (O). Scale bar, 100 µm (K) & 50 µm (N). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27161524>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Mukhopadhyay S, Jackson PK. Cilia, tubby mice, and obesity Cilia 2013-01-03 [PMID: 23351214]

Shen Y, Zhao H, Zhang L Et Al. The roles of DNA methylation and hydroxymethylation at short interspersed nuclear elements in the hypothalamic arcuate nucleus during puberty Molecular Therapy - Nucleic Acids 2021-07-01 [PMID: 34513307] (WB)

Aldrin-Kirk P, Heuer A, Wang G et al. DREADD Modulation of Transplanted DA Neurons Reveals a Novel Parkinsonian Dyskinesia Mechanism Mediated by the Serotonin 5-HT6 Receptor. Neuron. 2016-06-01 [PMID: 27161524] (IF/IHC, Rat)

Sun X, Haley J, Bulgakov OV et al. Tubby is required for trafficking G protein-coupled receptors to neuronal cilia. Cilia 2012-01-01 [PMID: 23351594]





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 NBP1-46557

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP3-17679PEP	5-HT6 Recombinant Protein Antigen

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-46557

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

