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.

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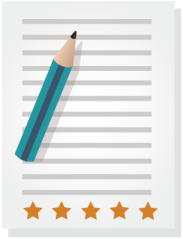
Publications: 4

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

Updated 9/9/2025 v.20.1



NBP1-46557

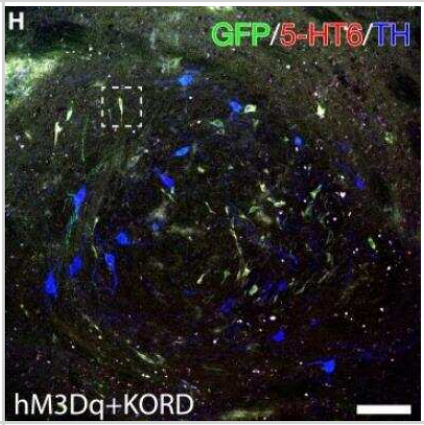
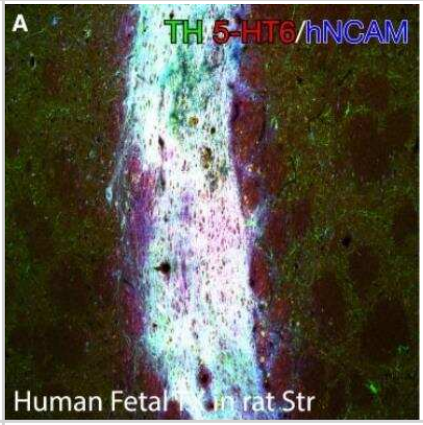
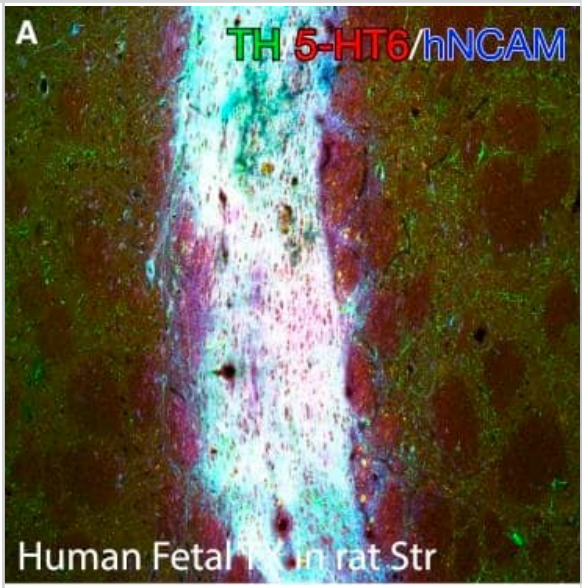
5-HT6 Antibody

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	
Description	Novus Biologicals Rabbit 5-HT6 Antibody (NBP1-46557) is a polyclonal antibody validated for use in IHC and WB. Anti-5-HT6 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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]

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Products Related to NBP1-46557

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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