

# Product Datasheet

## 5-HT1B Antibody - BSA Free

### NB100-56350

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 2

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**NB100-56350**

5-HT1B Antibody - BSA Free

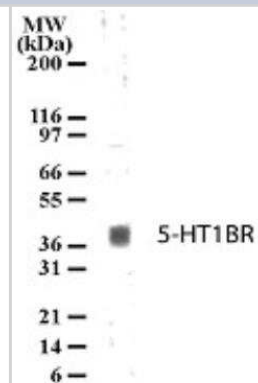
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit 5-HT1B Antibody - BSA Free (NB100-56350) is a polyclonal antibody validated for use in WB. Anti-5-HT1B Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3351
Gene Symbol	HTR1B
Species	Human, Mouse, Rat
Immunogen	This antibody was generated by immunizing rabbits with a mixture of synthetic peptides corresponding to amino acids 8-26 and 263-278 of rat 5-HT1BR (Uniprot# P28564)

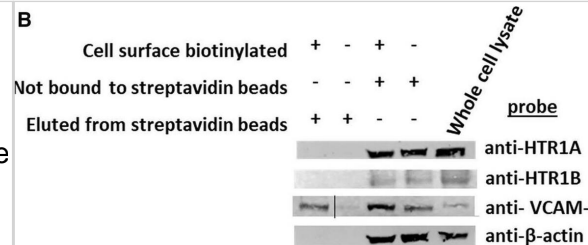
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1-3 ug/ml

**Images**

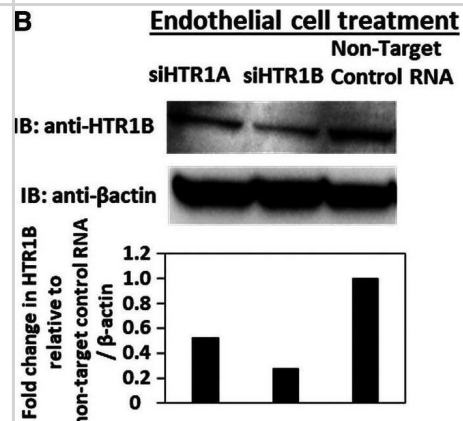
Western Blot: 5-HT1B Antibody [NB100-56350] - Analysis of 5-HT1B in human brain lysate with anti-5-HT1BR pcAb (NB100-56350). A protein band of approximate molecular weight of 40-41kDa was detected.



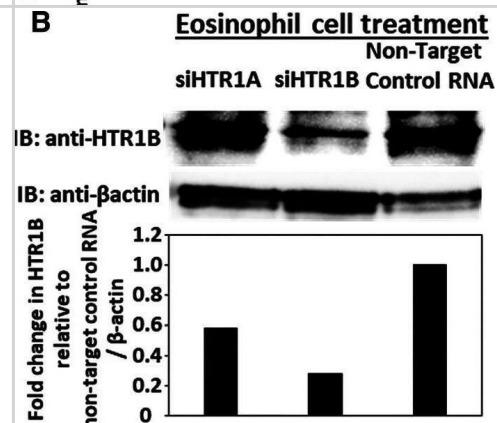
Exogenous serotonin did not block eosinophil transendothelial migration, consistent with intracellular HTR expression in endothelial cells. (A) Optical slices through the center of immunolabeled endothelial cell monolayers. Cells were fixed and immunolabeled with rabbit anti-mouse HTR1A, rabbit anti-mouse HTR1B or isotype control antibodies. Then the cells were washed and immunolabeled with FITC-conjugated goat anti-rabbit IgG. Then the cells were washed and immunolabeled with Alexa 647-conjugated rat anti-mouse VCAM-1 to mark the cell surface. The cells were cover-slipped with DAPI Prolong Gold to label the nuclei and coverslip the slides. The dotted white lines indicate location of cell membrane with VCAM-1 surface expression. (B) Biotinylation of endothelial surface proteins and western blot for HTR1A and HTR1B. (HTR1A, 46kD; HTR1B, 43kD; VCAM-1, 110kD;  $\beta$ actin, 42kD). The vertical line in the anti-VCAM-1 blot indicates removal of an empty lane where no sample was loaded on the gel. (C) Exogenous serotonin treatment overnight and during the transendothelial migration assay did not block leukocyte transendothelial migration. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38845678>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



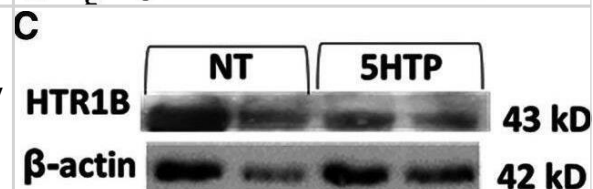
Endothelial cell HTR1A and HTR1B mediate 5HTP inhibition of eosinophil transendothelial migration. (A,B) HTR1A siRNA or HTR1B siRNA in endothelial cells knocked down HTR1A expression in the endothelial cells by western blot (HTR1A, 46kD; HTR1B, 43kD;  $\beta$ actin, 42kD) as compared to non-target control siRNA. Shown are representative blots of 2 experiments. (C,D) siRNA of HTR1A or HTR1B in endothelial cells blocked the 5HTP (125  $\mu$ M) inhibition of eosinophil transendothelial migration. N = 3 for representative experiment of 2 experiments. \* $p < 0.05$  compared to control siRNA. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38845678>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Eosinophil HTR1A and HTR1B do not mediate the inhibitory function of 5HTP on eosinophil transendothelial migration. (A,B) HTR1A siRNA or HTR1B siRNA in eosinophils knocked down HTR expression in the eosinophils by western blot as compared to non-target control siRNA. (C,D) siRNA of HTR1A or HTR1B in eosinophils did not block the 5HTP (125  $\mu$ M) inhibition of eosinophil transendothelial migration. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38845678>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Expression of serotonin receptors in endothelial and eosinophils (mouse and brain control). (A) Mouse endothelial cell line, NJ1638 mouse eosinophils and C57BL/6 mouse brain tissue were analyzed for HTRs by qPCR. (B–D) Mouse endothelial cells with and without 5HTP (125  $\mu$ M) were examined for HTR1A, HTR1B and HTR3A protein expression was analyzed by western blot. (E) Human microvascular endothelial cell and (F) Human peripheral blood eosinophil protein expression of HTRs was analyzed by western blot. Panel (E,F) were not normalized to GAPDH because regulation of expression was not assessed. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38845678>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Chen YH, Kuo TT, Wang V et Al. Serotonergic Regulation of Synaptic Dopamine Levels Mitigates L-DOPA-Induced Dyskinesia in a Mouse Model of Parkinson's Disease J Parkinsons Dis 2024-06-18 [PMID: 38905058]

Ponte M, Ahern G, O'Connell P Serotonin provides an accessory signal to enhance T-cell activation by signaling through the 5-HT7 receptor Blood. [PMID: 17158224] (WB, Mouse)





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### **Products Related to NB100-56350**

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NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
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

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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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