

# Product Datasheet

## Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) NBP2-67580

Unit Size: 100 ul

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

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**NBP2-67580****Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07)**

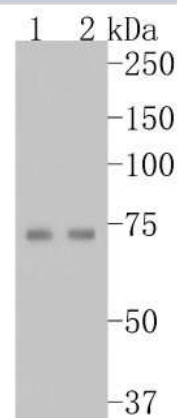
Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	SC53-07
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	TBS (pH7.4), 0.05% BSA, 40% Glycerol
<b>Target Molecular Weight</b>	51 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) (NBP2-67580) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	7166
<b>Gene Symbol</b>	TPH1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic peptide within Human Tryptophan Hydroxylase 1/TPH-1 aa 372-419 / 444. (SwissProt: P17752 Human; SwissProt: P17532 Mouse; SwissProt: P09810 Rat)

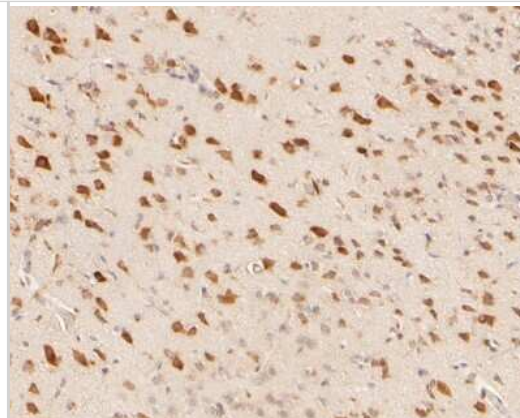
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation - Use at an assay dependent concentration, Immunohistochemistry-Paraffin 1:50-1:200

**Images**

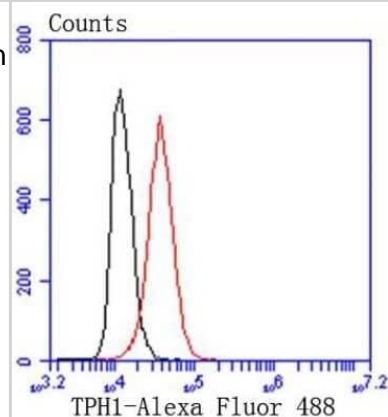
Western Blot: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580] - Analysis of Tryptophan Hydroxylase 1/TPH1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: HL-60 cell lysate Lane 2: Hela cell lysate



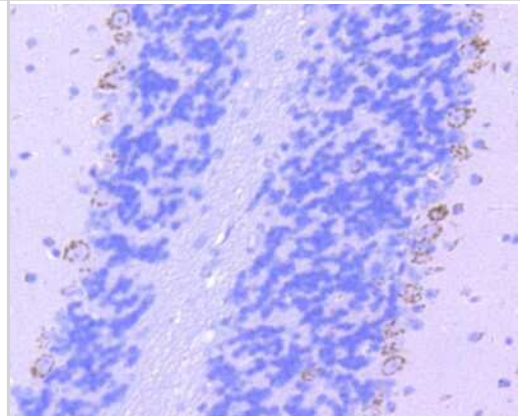
**Immunohistochemistry-Paraffin: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580]** - Analysis of paraffin-embedded rat brain tissue using anti-Tryptophan Hydroxylase/TPH-1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



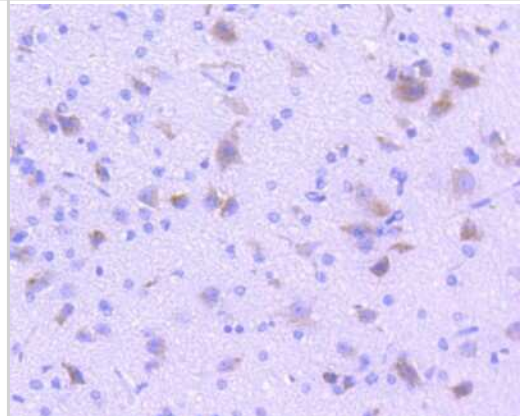
**Flow Cytometry: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580]** - Analysis of Hela cells with TPH1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



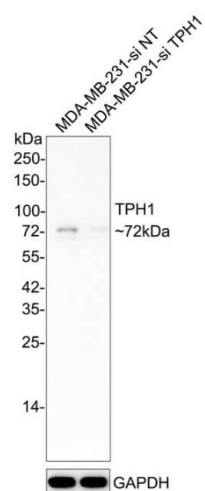
**Immunohistochemistry-Paraffin: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580]** - Analysis of paraffin-embedded mouse cerebellum tissue using anti-TPH1 antibody. Counter stained with hematoxylin.



**Immunohistochemistry-Paraffin: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580]** - Analysis of paraffin-embedded rat brain tissue using anti-TPH1 antibody. Counter stained with hematoxylin.



Western Blot: Tryptophan Hydroxylase 1/TPH-1 Antibody (SC53-07) [NBP2-67580] - Analysis of TPH1 on different lysates with Rabbit anti-TPH1 antibody at 1/1,000 dilution. Lane 1: MDA-MB-231-si NT cell lysate Lane 2: MDA-MB-231-si TPH1 cell lysate Lysates/proteins at 10 ug/Lane. Predicted band size: 51 kDa Observed band size: 72 kDa Exposure time: 3 minutes; 4-20% SDS-PAGE gel. NBP2-67580 was shown to specifically react with TPH1 in MDA-MB-231-si NT cells. Weakened band was observed when MDA-MB-231-si TPH1 sample was tested. MDA-MB-231-si NT and Hela-si TPH1 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (1/1,000) and Loading control antibody (Rabbit anti-GAPDH, (1/10,000) were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-rabbit IgG-HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.





### **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 NBP2-67580**

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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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