

Product Datasheet

Dopa Decarboxylase/DDC Antibody - Azide Free NB300-174

Unit Size: 0.1 ml

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

www.novusbio.com



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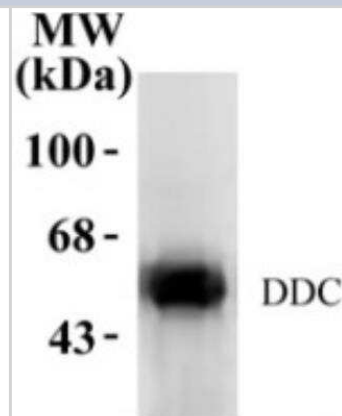


NB300-174**Dopa Decarboxylase/DDC Antibody - Azide Free**

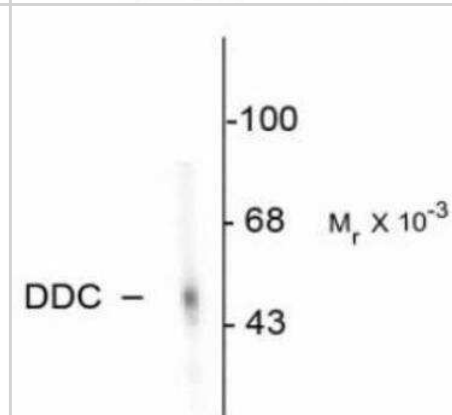
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	55 kDa
Product Description	
Description	Novus Biologicals Rabbit Dopa Decarboxylase/DDC Antibody - Azide Free (NB300-174) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-Dopa Decarboxylase/DDC Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1644
Gene Symbol	DDC
Species	Human, Mouse, Rat, Porcine, Bovine
Reactivity Notes	Porcine reactivity reported in (PMID: 19857468).
Specificity/Sensitivity	Specific for endogenous levels of the ~55 kDa Dopa Decarboxylase/DDC protein.
Immunogen	SDS denatured, recombinant bovine aromatic DOPA decarboxylase expressed in E. coli and purified from inclusion bodies. Accession # P27718
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:500, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	<p>This antibody can be used in Western blot where a single band at 55 kDa is seen. Immunohistochemistry-Paraffin was reported in scientific literature.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in Mouse Cerebellum lysate 0.2 mg/mL, separated by Size, antibody dilution of 1:500. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

Images

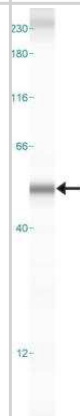
Western Blot: Dopa Decarboxylase/DDC Antibody [NB300-174] - Rat adrenal medulla. The antibody is specific for the ~55 kDa DOPA decarboxylase protein.



Western Blot: Dopa Decarboxylase/DDC Antibody [NB300-174] - Rat adrenal medulla showing specific immunolabeling of the ~55k DDC protein.

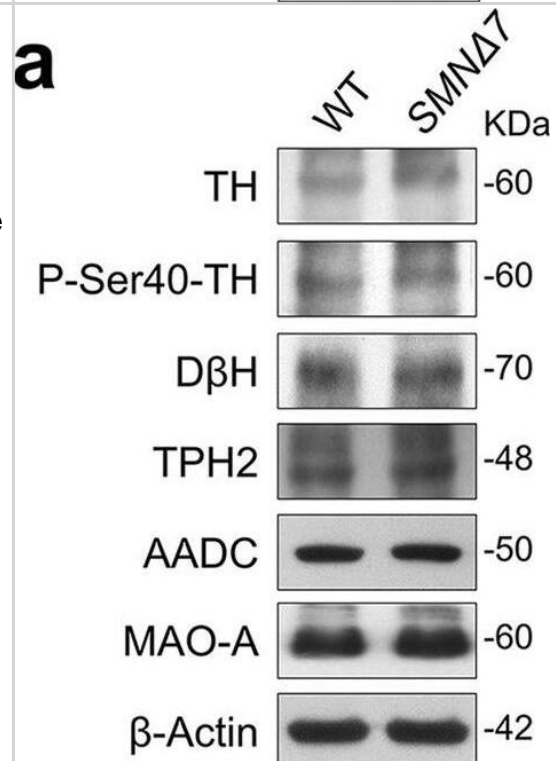
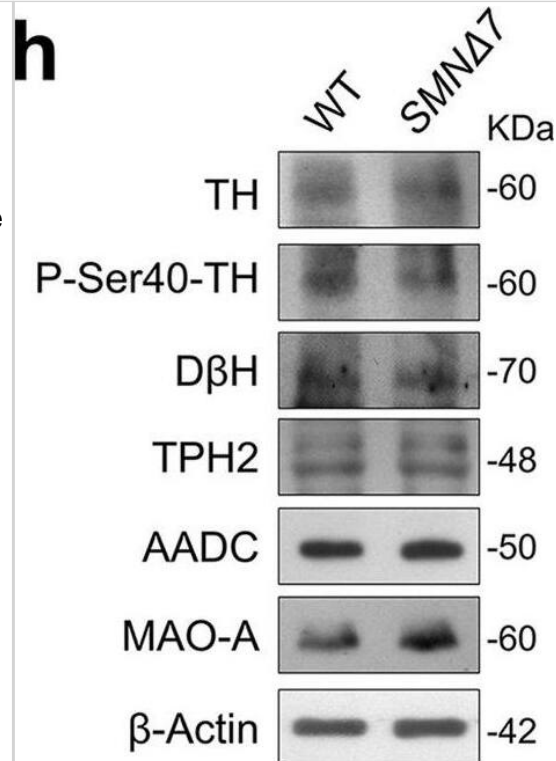


Simple Western: Dopa Decarboxylase/DDC Antibody [NB300-174] - Simple Western lane view shows a specific band for DOPA Decarboxylase in 0.2 mg/ml of Mouse Cerebellum lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. *Non-specific interaction with the 230 kDa standard may be seen with this antibody.



Expression levels of monoamine-regulating enzymes in the brain of SMN Δ 7 mice. a, h, o Representative autoradiograms of brain lysates immunoblots of SMN Δ 7 and wild-type (WT) mice at a post-natal day 3, h day 6, and o day 11. b–g Protein levels quantification of b Tyrosine hydroxylase (TH), c phospho-Tyrosine hydroxylase at Ser-40 (P-Ser40-TH), d Dopamine β hydroxylase (D β H), e Tryptophan hydroxylase 2 (TPH2), f Aromatic amino acid decarboxylase (AADC) and g Monoamine Oxidase A (MAO-A) in SMN Δ 7 (n = 4) and WT (n = 5) mice (except for TPH2: n = 4 mice/genotype) at post-natal day 3. i–n Protein levels quantification of i TH (n = 4 WT, n = 5 SMN Δ 7), j P-Ser40-TH (n = 4 WT, n = 5 SMN Δ 7), k D β H (n = 4 WT, n = 4 SMN Δ 7), l TPH2 (n = 4 WT, n = 3 SMN Δ 7), m AADC (n = 4 WT, n = 5 SMN Δ 7) and n MAO-A (n = 4 WT, n = 5 SMN Δ 7) at post-natal day 6. p–u Protein levels quantification of p TH (n = 13 WT, n = 14 SMN Δ 7), q P-Ser40-TH (n = 4 WT, n = 5 SMN Δ 7), r D β H (n = 4 WT, n = 5 SMN Δ 7), s TPH2 (n = 4 WT, n = 5 SMN Δ 7), t AADC (n = 13 WT, n = 14 SMN Δ 7) and u MAO-A (n = 8 WT, n = 10 SMN Δ 7) at post-natal day 11. Data are normalized to β -Actin levels and shown as box and whisker plots representing the median with interquartile range (IQR). Dots represent individual mice values. *p < 0.05, **p < 0.01, compared with age-matched WT mice (unpaired t-test). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37957344>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Valsecchi V, Errico F, Bassareo V et al. SMN deficiency perturbs monoamine neurotransmitter metabolism in spinal muscular atrophy Communications biology 2023-11-13 [PMID: 37957344] (WB, Mouse)

Details:

1:1000 WB dilution

Fathi A, Bakshy K, Zieghami L et al. Diverging Parkinsons Disease Pathology between patient-derivedGBAN370S, LRRK2G2019Sand engineeredSNCAA53TiPSC-derived Dopaminergic Neurons bioRxiv 2023-01-07 (Western Blot, Human)

Blechingberg J, Holm IE, Johansen MG et al. Aromatic l-amino acid decarboxylase expression profiling and isoform detection in the developing porcine brain. Brain Res 2010-01-13 [PMID: 19857468] (IHC-P, WB, Porcine)





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 NB300-174

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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