Product Datasheet

Aconitase 2 Antibody - BSA Free
NBP1-32781

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

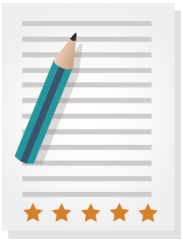
www.novusbio.com technical@novusbio.com

Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-32781

Updated 9/25/2025 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/NBP1-32781



NBP1-32781

Aconitase 2 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris, 0.1M Glycine, 10% Glycerol
Target Molecular Weight	85 kDa

Product Description

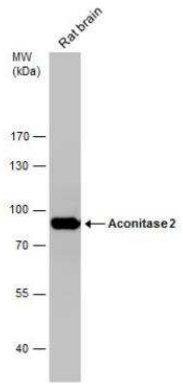
Description	Novus Biologicals Rabbit Aconitase 2 Antibody - BSA Free (NBP1-32781) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Aconitase 2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	50
Gene Symbol	ACO2
Species	Human, Mouse, Rat
Reactivity Notes	Xenopus laevis (86%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human Aconitase 2. The exact sequence is proprietary.

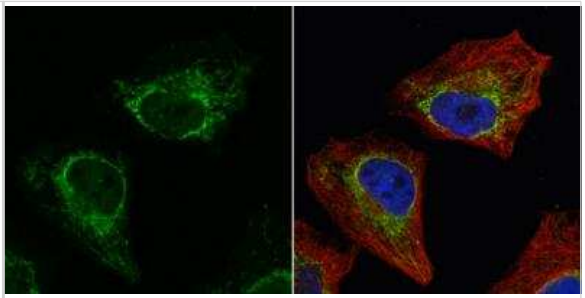
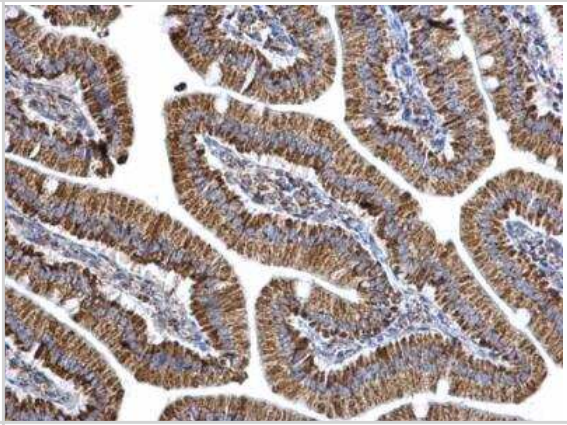
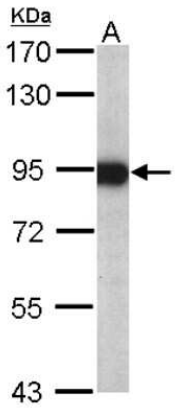
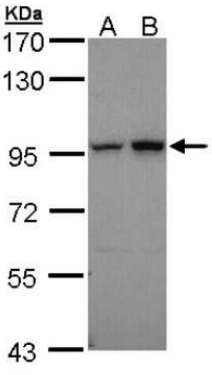
Product Application Details

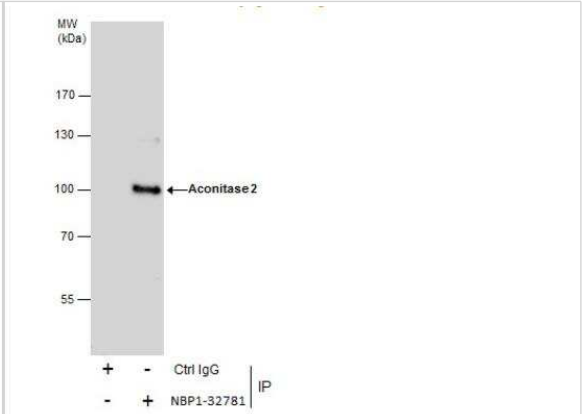
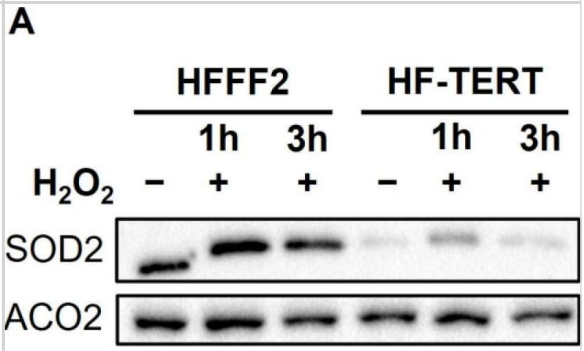
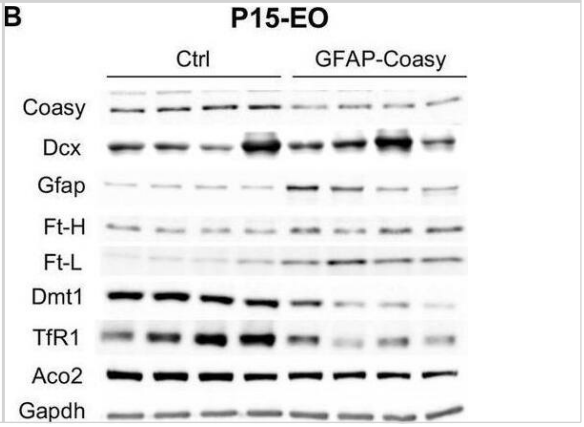
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:20000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000

Images

Western Blot: Aconitase 2 Antibody [NBP1-32781] - Rat tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Aconitase 2 antibody [C1C3] diluted at 1:10000.



Immunocytochemistry/Immunofluorescence: Aconitase 2 Antibody [NBP1-32781] - HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Aconitase 2 protein stained by Aconitase 2 antibody [C1C3] diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [114] diluted at 1:500. Blue: Hoechst 33342 staining.	
Immunohistochemistry-Paraffin: Aconitase 2 Antibody [NBP1-32781] - Paraffin-embedded mouse duodenum. Aconitase 2 antibody [C1C3] dilution: 1:500.	
Western Blot: Aconitase 2 Antibody [NBP1-32781] - Sample (20 ug of whole cell lysate) A: mouse brain 7. 5% SDS PAGE, antibody diluted at 1:20000.	
Western Blot: Aconitase 2 Antibody [NBP1-32781] - Sample (30 ug of whole cell lysate) A: 293T B: A431 7.5% SDS PAGE, antibody diluted at 1:10000.	

Immunoprecipitation: Aconitase 2 Antibody [NBP1-32781] - HeLa whole cell extracts using 5 ug of Aconitase 2 antibody [C1C3]. Western blot analysis was performed using Aconitase 2 antibody [C1C3]. EasyBlot anti-Rabbit IgG was used as a secondary reagent.	
SOD2 protein level evaluated after H2O2 treatment. (A) Western blot of SOD2 and Aconitase 2 (ACO2, used as a control) in HFFF2 and HF-TERT cells at 1 or 3 h of recovery after H2O2 treatment. (B) Quantification of SOD2 protein level in both cell lines after H2O2 treatment. Data represent mean +/- SEM. Statistical analysis is performed between HF-TERT and HFFF2 untreated cells, or between treated and untreated HF-TERT. * p < 0.05; *** p < 0.001 by t-test. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/36901881), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Molecular and biochemical characterization of GFAP-Coasy mice. (A) Relative Coasy mRNA expression at 15 days and 6 months in Ctrl (n = 4) and GFAP-Coasy (n = 4) mice brain, tested by qPCR. (B) Representative images of Western blot analysis and (C–J) densitometric quantification of (C) Coasy, (D) Dcx, (E) Gfap, (F) Ft-H, (G) Ft-L, (H) Dmt1, (I) TfR1, and (J) Aco2 at 15 days and 6 months in Ctrl and GFAP-Coasy mice brain. (K) Specific activity of mitochondrial respiratory chain complex I, expressed as nmoles/min/mg of protein. *p < 0.05, ** p < 0.01; ***p < 0.001 (two-way ANOVA). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39301217), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Cavestro C, D'Amato M, Colombo MN et al. CoA synthase plays a critical role in neurodevelopment and neurodegeneration Frontiers in Cellular Neuroscience 2024-09-05 [PMID: 39301217]

Marinaccio J, Micheli E, Udroiu I et al. TERT Extra-Telomeric Roles: Antioxidant Activity and Mitochondrial Protection International journal of molecular sciences 2023-02-23 [PMID: 36901881] (WB, Human)

Ciccarone F, De Falco P, Ciriolo MR Aconitase 2 sensitizes MCF-7 cells to cisplatin eliciting p53-mediated apoptosis in a ROS-dependent manner Biochem. Pharmacol. 2020-08-18 [PMID: 32818504] (WB, Human)

Ciccarone F, Di Leo L, Lazzarino G, et al. Aconitase 2 inhibits the proliferation of MCF-7 cells promoting mitochondrial oxidative metabolism and ROS/FoxO1-mediated autophagic response Br. J. Cancer 2019-12-10 [PMID: 31819175] (WB, Human)

Tammineni P, Anugula C, Mohammed F et al. The import of the transcription factor STAT3 into mitochondria depends on GRIM-19, a component of the electron transport chain J Biol Chem 2012-12-27 [PMID: 23271731] (WB, Rat)

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 NBP1-32781

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.

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/NBP1-32781

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