

Product Datasheet

COX-2 Antibody NB100-868

Unit Size: 0.1 mg

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 **Publications: 11**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-868

Updated 9/9/2025 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/NB100-868



NB100-868

COX-2 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat COX-2 Antibody (NB100-868) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-COX-2 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	5743
Gene Symbol	PTGS2
Species	Human, Mouse
Reactivity Notes	Expected from sequence similarity: Canine, Porcine, Bovine. Mouse reactivity reported in scientific literature (PMID: 24854039).
Immunogen	Peptide with sequence C-NPTVLLKERSTEL corresponding to C-Terminus according to NP_000954.1.

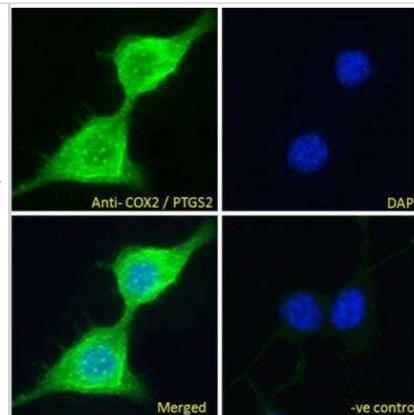
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.1-0.3ug/ml, Flow Cytometry 10ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/ml , Immunohistochemistry-Paraffin, Peptide ELISA Detection limit 1:32000
Application Notes	Western blot: Approx 75-80 kDa band observed in lysates of cell lines A549 and Daudi (predicted MW of 69 kDa according to NP_000954.1). COX-2 antibody validated for IHC-P from a verified customer review.

Images

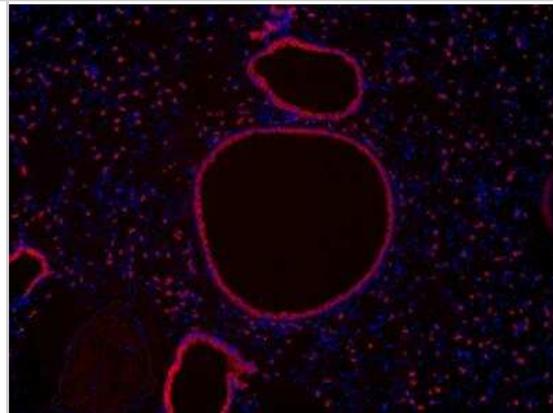
Western Blot: COX-2 Antibody [NB100-868] - A549 (A) and Daudi (B) cell lysates (35 ug protein in RIPA buffer). Detected by chemiluminescence.



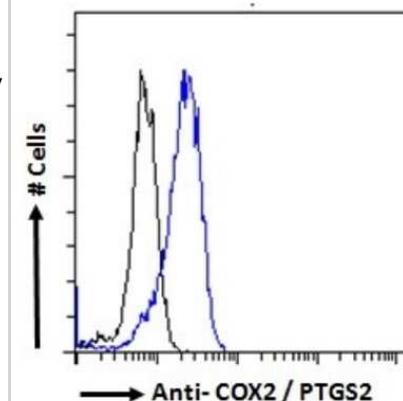
Immunocytochemistry/Immunofluorescence: COX-2 Antibody [NB100-868] - Analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasm and vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



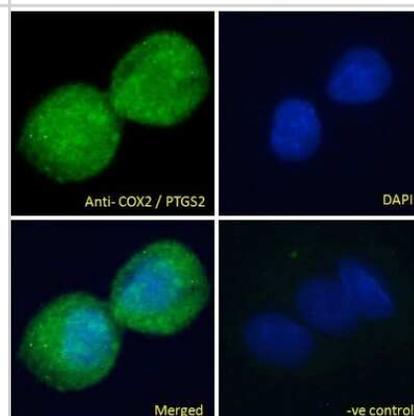
Immunohistochemistry-Paraffin: COX-2 Antibody [NB100-868] - 10x image of mouse lung tissue expressing cox-2. Secondary antibody: Alexa Fluor 546 (red), counterstain: DAPI (blue). Goat anti-mouse cox-2 immunofluorescence staining of paraffin embedded fixed mouse lung tissue sections. Antigen retrieval in citrate buffer (95C, 20 min) followed by permeabilization with 0.2% Triton X-100 for 20 min. Sections were blocked in 5% donkey serum for 1 hr at RT, and incubated with NB100-868 1:100 dilution in 3% donkey serum overnight at 4 C. Incubated with secondary donkey anti-goat AF546 at 1:500 dilution 1 hr at RT. Image submitted by a verified customer review.



Flow Cytometry: COX-2 Antibody [NB100-868] - Paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/ml) followed by Alexa Fluor 488 secondary antibody (2 ug/ml). IgG control: Unimmunized goat IgG (black line)



Immunocytochemistry/Immunofluorescence: COX-2 Antibody [NB100-868] - Paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/ml) followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing cytoplasmic/vesicle staining. The nuclear stain is DAPI (blue)



Publications

Beach TA, Finkelstein JN, Chang PY. Epithelial Responses in Radiation-Induced Lung Injury (RILI) Allow Chronic Inflammation and Fibrogenesis Radiation Research 2023-05-01 [PMID: 37237442]

Francesca Ferrara, Xi Yan, Alessandra Pecorelli, Anna Guiotto, Sante Colella, Arianna Pasqui, John Ivarrson, Stephen Lynch, Sara Anderias, Hina Choundhary, Stacy White, Giuseppe Valacchi Combined exposure to UV and PM affect skin oxinflammatory responses and it is prevented by antioxidant mix topical application: Evidences from clinical study. Journal of cosmetic dermatology 2024-04-08 [PMID: 38590207]

Hamilton HL, Kinscherf NA, Balmer G et al. FABP7 drives an inflammatory response in human astrocytes and is upregulated in Alzheimer's disease GeroScience 2023-09-09 [PMID: 37688656] (IHC-P, Mouse)

Benedusi M, Kerob D, Guiotto A et al. Topical Application of M89PF Containing Vichy Mineralising Water and Probiotic Fractions Prevents Cutaneous Damage Induced by Exposure to UV and O3 Clinical, cosmetic and investigational dermatology 2023-07-08 [PMID: 37448587]

Hoskin RT, Grace MH, Guiotto A et al. Development of Spray Dried Spirulina Protein-Berry Pomace Polyphenol Particles to Attenuate Pollution-Induced Skin Damage: A Convergent Food-Beauty Approach Antioxidants (Basel, Switzerland) 2023-07-15 [PMID: 37507969] (IHC-P, Plant)

Details:

Elderberry (*Sambucus nigra*), Grape (*Vitis rotundifolia*)

Pambianchi E, Hagenberg Z, Pecorelli A Et al. Alaskan Bog Blueberry (*Vaccinium uliginosum*) Extract as an Innovative Topical Approach to Prevent UV-Induced Skin Damage Cosmetics 2021-11-27 (IHC-P, Human)

Liang, H;Wang, H;Luo, L;Fan, S;Zhou, L;Liu, Z;Yao, S;Zhang, X;Zhong, K;Zhao, H;Zha, Z; Toll-like receptor 4 promotes high glucose-induced catabolic and inflammatory responses in chondrocytes in an NF-kappa B-dependent manner Life Sci. 2019-04-03 [PMID: 30953645] (WB, Human)

Ballif BA, Mincek NV, Barratt JT et al. Interaction of cyclooxygenases with an apoptosis- and autoimmunity associated protein. Proc Natl Acad Sci U S A 1996-05-28 [PMID: 8643612]

Das U, Manna K, Sinha M et al. Role of ferulic Acid in the amelioration of ionizing radiation induced inflammation: a murine model. PLoS One 2014-05-24 [PMID: 24854039] (WB, Mouse)

Huang J, Siragy HM. Glucose Promotes the Production of Interleukine-1{beta} and Cyclooxygenase-2 in Mesangial Cells via Enhanced (Pro)Renin Receptor Expression. Endocrinology 2009:en-0442. 2009-01-01 [PMID: 19861503]

George I, Morrow B, Xu K et al. Prolonged effects of B-type natriuretic peptide infusion on cardiac remodeling after sustained myocardial injury. Am J Physiol Heart Circ Physiol;297(2):H708-717. 2009-01-01 [PMID: 19525373]





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 NB100-868

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP1-85499PEP	COX-2 Recombinant Protein Antigen

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/NB100-868

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



