

# Product Datasheet

## COX-2 Antibody NB100-868

Unit Size: 0.1 mg

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

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Updated 10/23/2024 v.20.1

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**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	
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.

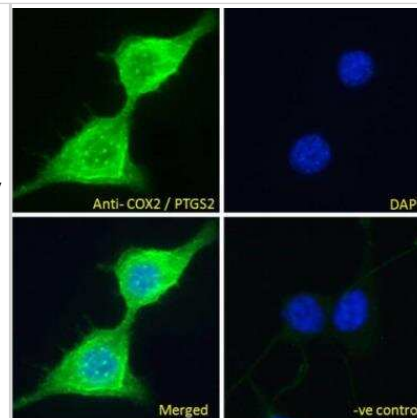
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.1-0.3ug/ml, Flow Cytometry 10ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 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**

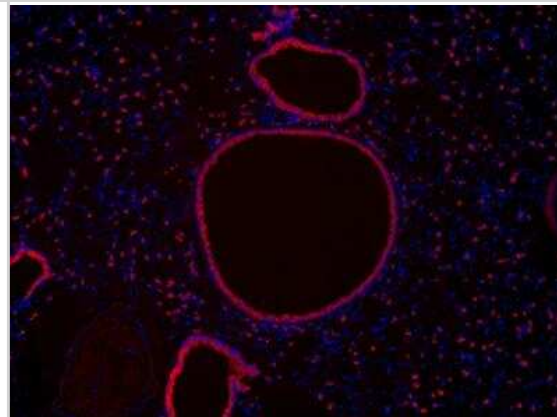
Western Blot: COX-2 Antibody [NB100-868] - A549 (A) and Daudi (B) cell lysates (35 ug protein in RIPA buffer). Detected by chemiluminescence.



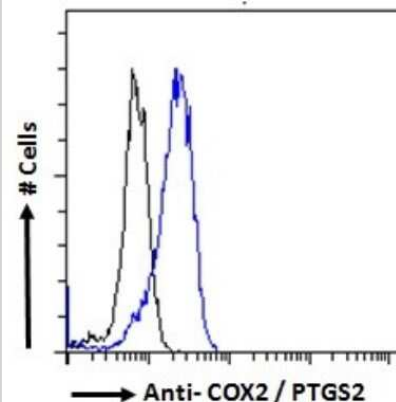
Immunocytochemistry/Immunofluorescence: COX-2 Antibody [NB100-868] - Analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasm and vesicle staining. The nuclear stain is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



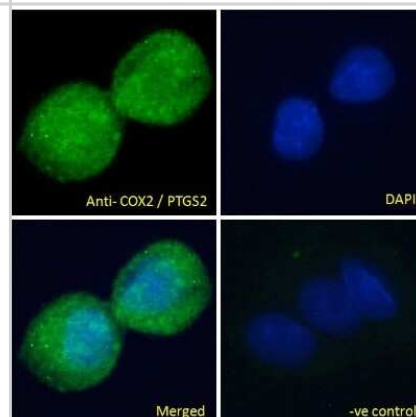
Immunohistochemistry-Paraffin: COX-2 Antibody [NB100-868] - 10x image of mouse lung tissue expressing cox-2. Secondary antibody: Alexa Fluor 546 (red), counterstain: DAPI (blue). Goat anti-mouse cox-2 immunofluorescence staining of paraffin embedded fixed mouse lung tissue sections. Antigen retrieval 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

Francesca Ferrara, Xi Yan, Alessandra Pecorelli, Anna Guiotto, Sante Colella, Arianna Pasqui, John Ivansson, 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)

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] (Immunocytochemistry/Immunofluorescence)

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**

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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

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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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