

# Product Datasheet

## COX-1 Antibody (SC68-05)

### NBP2-67643

Unit Size: 100 ul

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

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Updated 10/23/2024 v.20.1

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**NBP2-67643**

COX-1 Antibody (SC68-05)

**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>	SC68-05
<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

**Product Description**

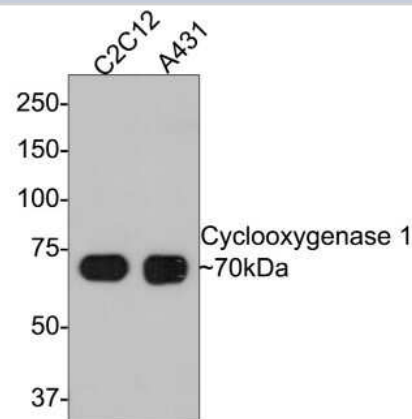
<b>Host</b>	Rabbit
<b>Gene ID</b>	5742
<b>Gene Symbol</b>	PTGS1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic peptide within Human COX-1 aa 116-159 / 599. (SwissProt: P23219 Human; SwissProt: P22437 Mouse; SwissProt: Q63921 Rat)

**Product Application Details**

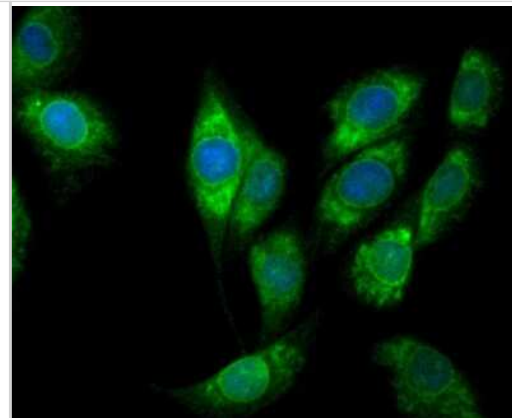
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:5000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:1000

**Images**

Western Blot: COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of COX-1 on different lysates with Rabbit anti-COX-1 antibody at 1/1,000 dilution. Lane 1: C2C12 cell lysate Lane 2: A431 cell lysate Lysates/proteins at 10 ug/Lane. Predicted band size: 69 kDa Observed band size: 70 kDa Exposure time: 2 minutes; 8% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



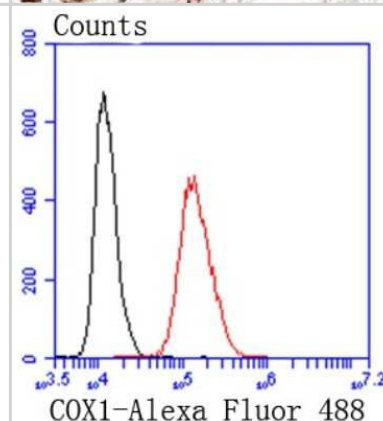
**Immunocytochemistry/Immunofluorescence:** COX-1 Antibody (SC68-05) [NBP2-67643] - Staining COX1 in L6 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



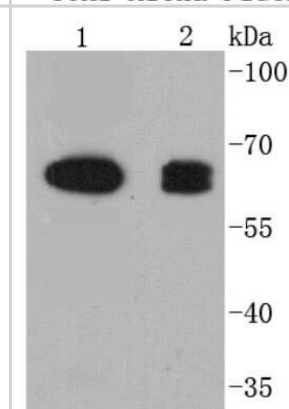
**Immunohistochemistry-Paraffin:** COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of paraffin-embedded human skin tissue with Rabbit anti-COX-1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody for 1 hour 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.



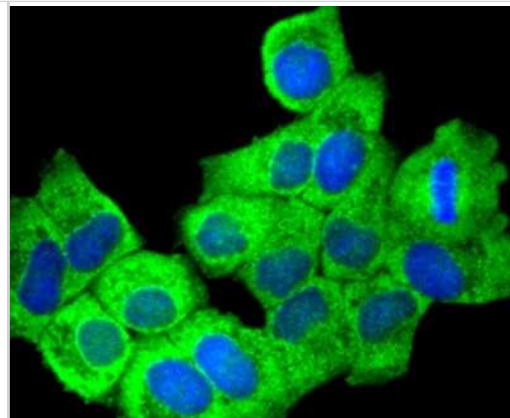
**Flow Cytometry:** COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of Hela cells with COX1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



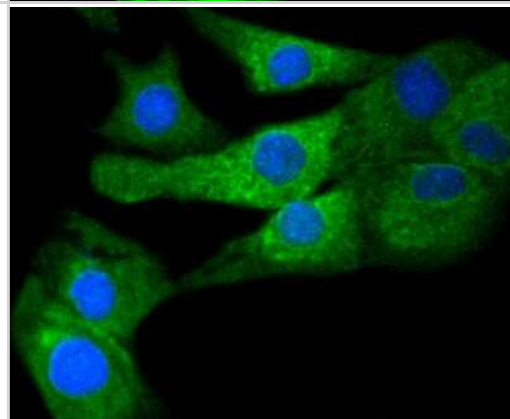
**Western Blot:** COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of COX1 on different lysates using anti-COX1 antibody at 1/1,000 dilution. Positive control: Lane 1: C2C12 Lane 2: A431



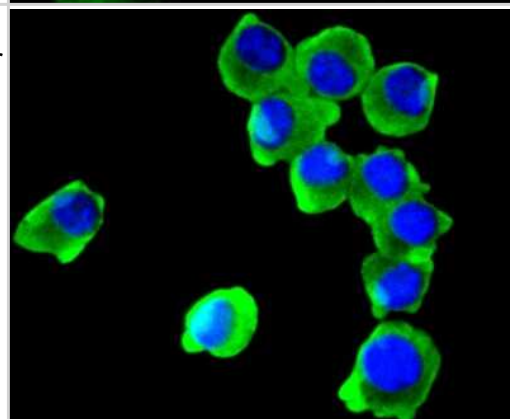
Immunocytochemistry/Immunofluorescence: COX-1 Antibody (SC68-05) [NBP2-67643] - Staining COX1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



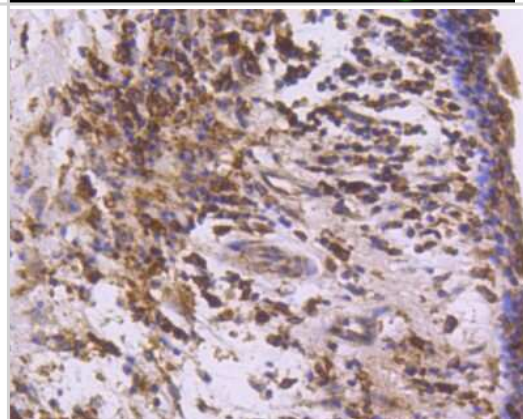
Immunocytochemistry/Immunofluorescence: COX-1 Antibody (SC68-05) [NBP2-67643] - Staining COX1 in C2C12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



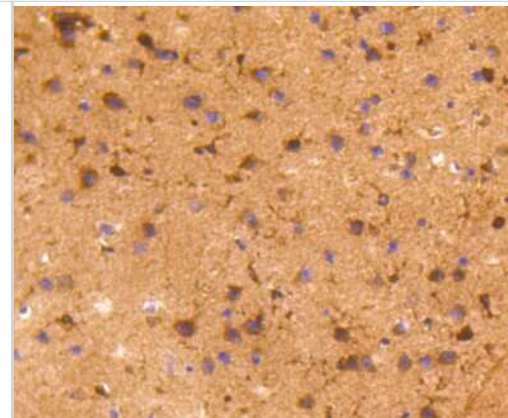
Immunocytochemistry/Immunofluorescence: COX-1 Antibody (SC68-05) [NBP2-67643] - Staining COX1 in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



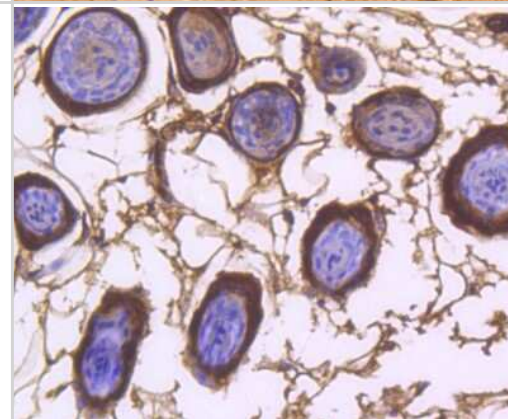
Immunohistochemistry-Paraffin: COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of paraffin-embedded human breast cancer tissue using anti-COX1 antibody. Counter stained with hematoxylin.



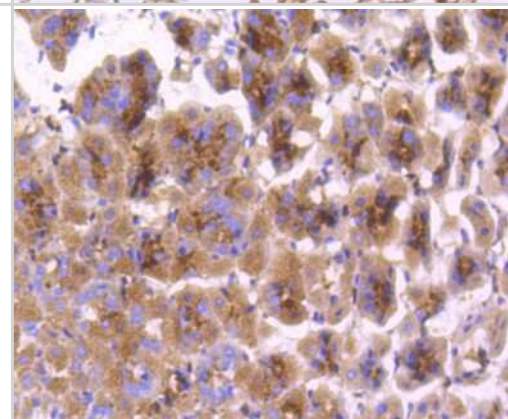
Immunohistochemistry-Paraffin: COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of paraffin-embedded mouse brain tissue using anti-COX1 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of paraffin-embedded mouse skin tissue using anti-COX1 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: COX-1 Antibody (SC68-05) [NBP2-67643] - Analysis of paraffin-embedded mouse stomach tissue using anti-COX1 antibody. Counter stained with hematoxylin.







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### **Products Related to NBP2-67643**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00005742-Q01-10ug	Recombinant Human COX-1 GST (N-Term) Protein

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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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