

## COX1/Cyclooxygenase 1 Rabbit mAb

Catalog No: #49017

Package Size: #49017-1 50ul #49017-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	COX1/Cyclooxygenase 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC68-05
Purification	ProA affinity purified
Applications	WB, ICC, IHC, FC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	COX 1 antibody COX 3 antibody COX-1 antibody COX1 antibody Cox3 antibody Cyclooxygenase 1 antibody Cyclooxygenase 3, included antibody Cyclooxygenase-1 antibody EC 1.14.99.1 antibody Partial COX1 proteins, included antibody PCOX1 antibody PGG/HS antibody PGH synthase 1 antibody PGH1_HUMAN antibody PGHS-1 antibody PGHS1 antibody PHS 1 antibody PHS1 antibody Prostaglandin G/H synthase 1 antibody Prostaglandin H2 synthase 1 antibody Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) antibody Prostaglandin-endoperoxide synthase 1 antibody PTGHS antibody PTGS1 antibody
Accession No.	Swiss-Prot#:P23219
Uniprot	P23219
GeneID	5742;
Calculated MW	69 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

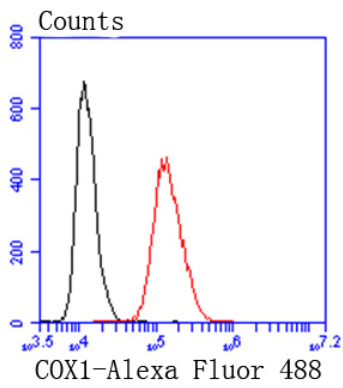
WB: 1:1,000-5,000

IHC: 1:50-1:200

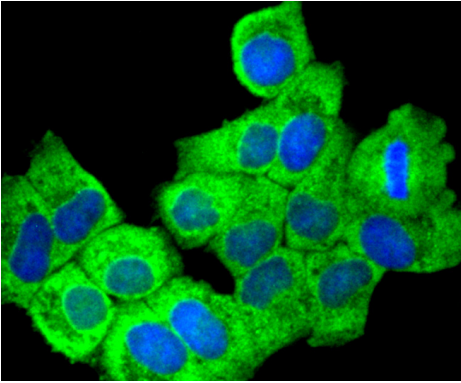
ICC: 1:100-1:500

FC: 1:50-1:100

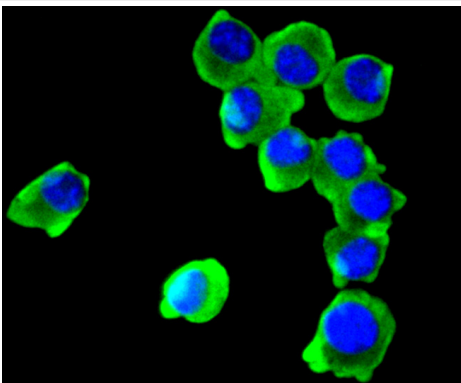
## Images



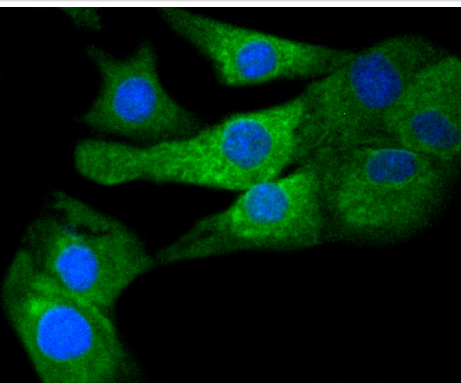
Flow cytometric analysis of Hela cells with COX1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



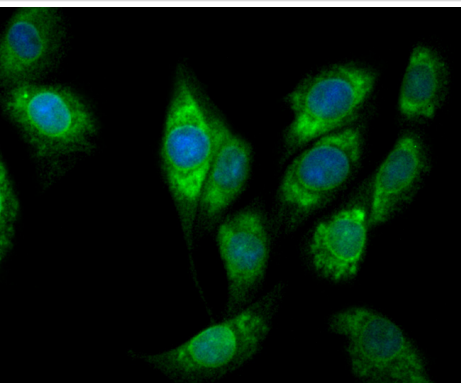
ICC staining COX1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



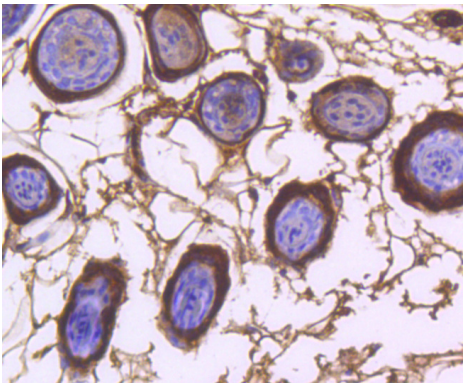
ICC staining COX1 in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



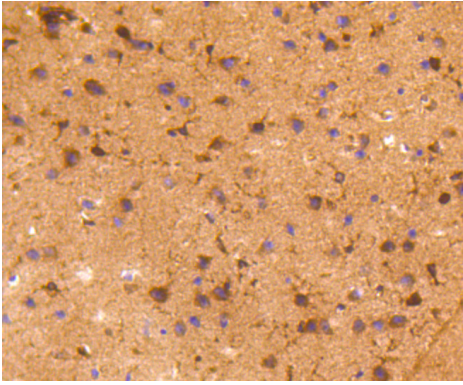
ICC staining COX1 in C2C12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



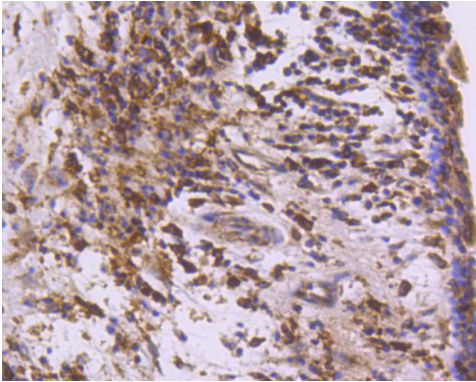
ICC staining COX1 in L6 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



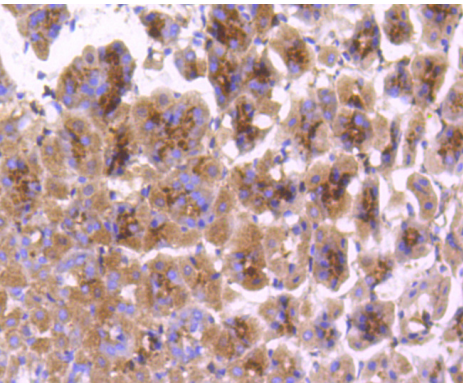
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-COX1 antibody. Counter stained with hematoxylin.



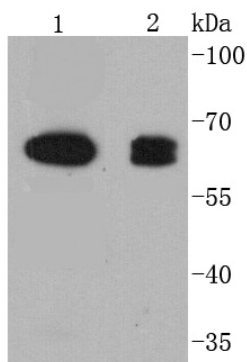
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-COX1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-COX1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-COX1 antibody. Counter stained with hematoxylin.



Western blot analysis of COX1 on different lysates using anti-COX1 antibody at 1/1,000 dilution. Positive control:  
Lane 1: C2C12  
Lane 2: A431

## Background

---

Cytochrome c oxidase subunit I, COX1 (also designated COI, MTCO1 or oxidative phosphorylation (OxPhos) Complex IV, subunit I) is one of three mitochondrial DNA (mtDNA) encoded subunits (MTCO1-3) of respiratory Complex IV. Cytochrome c oxidase is a hetero-oligomeric enzyme composed of 13 subunits localized to the mitochondrial inner membrane and is the terminal enzyme complex of the electron transport chain. Complex IV catalyzes the reduction of molecular oxygen to water. The energy released is used to transport protons across the mitochondrial inner membrane. The resulting electro-chemical gradient is necessary for the synthesis of ATP. Complex IV contains 13 polypeptides; COX1, COX2 and COX3 (MTCO1-3) make up the catalytic core and are encoded by mtDNA while subunits IV, Va, Vb, VIa, VIb, VIc, VIIa, VIIb, VIIc and VIII are nuclear-encoded.

## References

---

---

Note: This product is for in vitro research use only