

## Product datasheet for **TA301446**

### COX4 (COX4I1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ICC, ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Immunocytochemistry, Chromatin Immunoprecipitation (ChIP), Knockdown Validated, Immunohistochemistry: 1:100, Immunocytochemistry/ Immunofluorescence: 1:40, Western Blot: 1:2000, Immunohistochemistry-Paraffin: 1:100, Simple Western: 1:25
Reactivity:	Human, Mouse, Bovine, Primate, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an internal region of the human COX4-1 protein (within residues 1-100). [Swiss-Prot# P13073]
Formulation:	Tris-glycine, 150mM NaCl and 0.05% sodium azide
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cytochrome c oxidase subunit 4I1
Database Link:	<a href="#">NP_001852</a> <a href="#">Entrez Gene 12857 Mouse</a> <a href="#">Entrez Gene 29445 Rat</a> <a href="#">Entrez Gene 1327 Human</a> <a href="#">P13073</a>
Background:	Cytochrome C Oxidase (COX), which is located in the inner mitochondrial membrane, is the terminal enzyme complex of the mitochondrial electron transport chain. It collects electrons that are transferred from reduced Cytochrome C and donates them to molecular oxygen, which is then reduced to water.
Synonyms:	COX4; COX4-1; COXIV; COX IV-1; COXIV-1
Protein Families:	Transmembrane



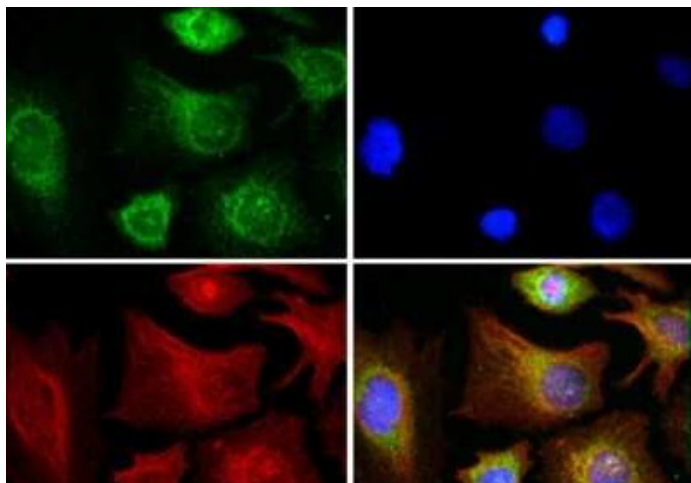
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**Protein Pathways:** Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

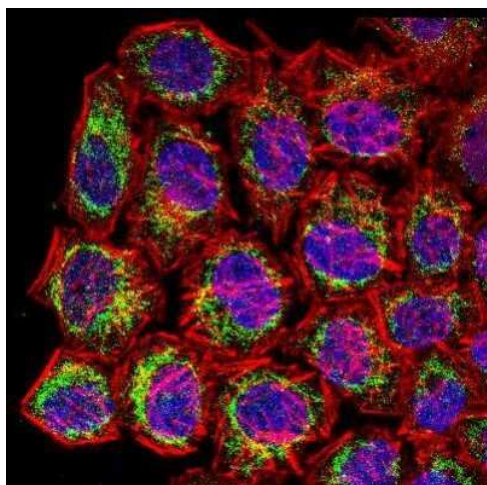
### Product images:



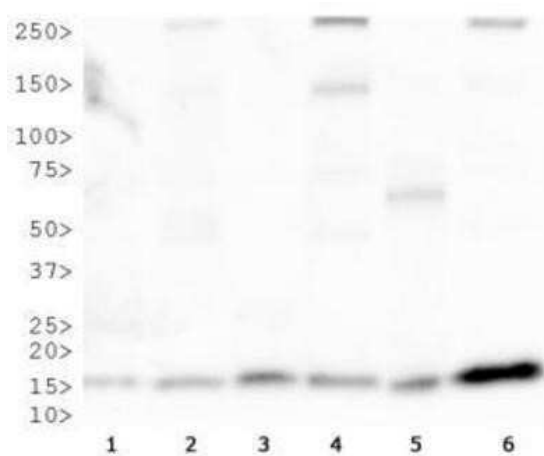
Simple Western: COX4 Antibody - BSA Free TA301446 - Image shows a specific band for COX4 in 1.0 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



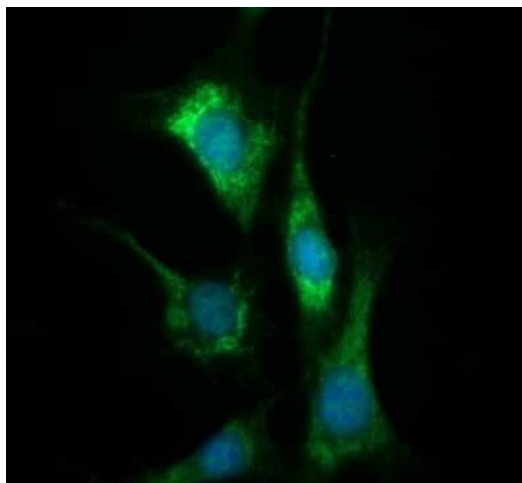
Immunocytochemistry/Immunofluorescence: COX4 Antibody - BSA Free TA301446 - COX4 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



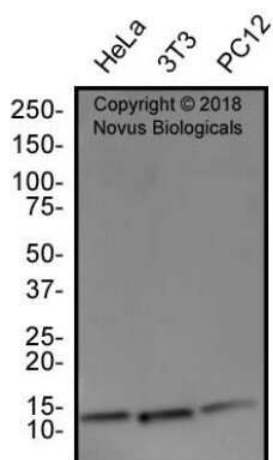
Immunocytochemistry/Immunofluorescence: COX4 Antibody - BSA Free TA301446 - Analysis of HeLa cells using COX4 antibody (TA301446, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



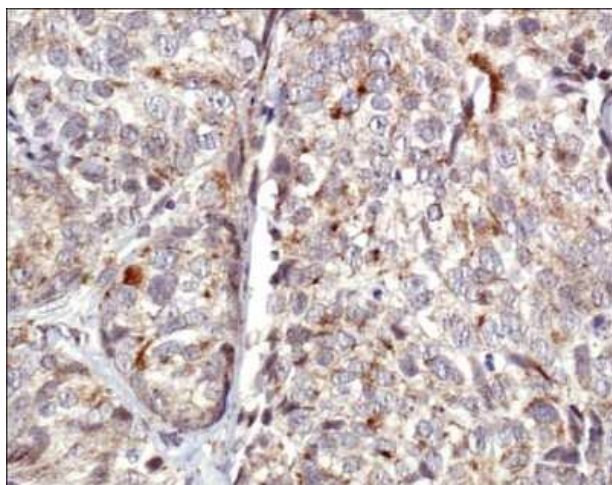
Western Blot: COX4 Antibody - BSA Free TA301446 - Analysis of COX4 in the following cell lysates: 1. HeLa, 2. Ntera, 3. A431, 4. HepG2, 5. MCF7 and 6. 3T3.



Immunocytochemistry/Immunofluorescence: COX4 Antibody - BSA Free TA301446 - NIH3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-COX4 at 10 ug/mL overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: COX4 Antibody - BSA Free TA301446 - Total protein from HeLa, 3T3 and PC12 was separated on a 4-20% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 0.5 ug/mL anti-COX4 in 5% block buffer and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



Immunohistochemistry: COX4 Antibody - BSA Free TA301446 - Analysis of COX4 in human breast cancer using DAB with hematoxylin counterstain.