

**Goat anti-COX4I1, Biotinylated Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF4394a

**Specification**

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**Goat anti-COX4I1, Biotinylated Antibody - Product Information**

Application	WB, IHC, Pep-ELISA
Primary Accession	<a href="#">P13073</a>
Other Accession	<a href="#">NP_001852.1</a> , <a href="#">NP_001305726.1</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	19577

**Goat anti-COX4I1, Biotinylated Antibody - Additional Information**

**Gene ID** 1327

**Other Names**

COX4I1; cytochrome c oxidase subunit IV isoform 1; COX4; COX4-1; COXIV; COXIV-1; cytochrome c oxidase polypeptide IV

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

This antibody is expected to recognize reported isoforms 1 and 4 (NP\_001852.1; NP\_001305726.1). Reported variants represent identical protein: NP\_001305715.1, NP\_001852.1. This product may cross-react to COX4I2 (GeneID 84701).

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-COX4I1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-COX4I1, Biotinylated Antibody - Protein Information**

**Name** COX4I1 ([HGNC:2265](#))

**Function**

Component of the cytochrome c oxidase, the last enzyme in the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol- cytochrome c oxidoreductase

(cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix.

**Cellular Location**

Mitochondrion inner membrane; Single-pass membrane protein

**Tissue Location**

Ubiquitous.

**Goat anti-COX4I1, Biotinylated Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat anti-COX4I1, Biotinylated Antibody - Images**