

COXIV / COX4 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12730**Specification**

COXIV / COX4 Antibody (C-Terminus) - Product Information

Application	WB, IHC
Primary Accession	P13073
Reactivity	Human, Monkey
Host	Goat
Clonality	Polyclonal
Calculated MW	20kDa KDa

COXIV / COX4 Antibody (C-Terminus) - Additional Information**Gene ID** 1327**Other Names**

Cytochrome c oxidase subunit 4 isoform 1, mitochondrial, Cytochrome c oxidase polypeptide IV, Cytochrome c oxidase subunit IV isoform 1, COX IV-1, COX4I1, COX4

Target/Specificity

Human COX4I1. This antibody is expected to recognize COX4I1 (GeneID:1327; MW: 19.6kDa) & COX4I2 (GeneID:84701, MW:19.6kDa).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

COXIV / COX4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

COXIV / COX4 Antibody (C-Terminus) - 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.

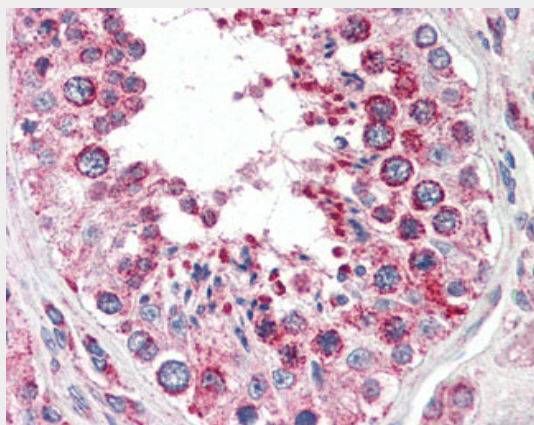
COXIV / COX4 Antibody (C-Terminus) - Protocols

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](#)

COXIV / COX4 Antibody (C-Terminus) - Images

Antibody (0.01 ug/ml) staining of human muscle lysate (35 ug protein in RIPA buffer).



Anti-COX4I1 antibody IHC of human testis.

COXIV / COX4 Antibody (C-Terminus) - Background

This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

COXIV / COX4 Antibody (C-Terminus) - References

Zeviani M.,et al.Gene 55:205-217(1987).

Lomax M.I.,et al.Gene 86:209-216(1990).

Park S.J.,et al.Submitted (OCT-1990) to the EMBL/GenBank/DDBJ databases.

Yu W.,et al.Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.

Bachman N.J.,et al.Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases.