

ARG64285 anti-COX4 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes COX4
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize COX4I1 (GeneID:1327; MW: 19.6kDa) & COX4I2 (GeneID:84701, MW:19.6kDa).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	COX4
Species	Human
Immunogen	C-QGLASKWDYEKNE
Conjugation	Un-conjugated
Alternate Names	Cytochrome c oxidase polypeptide IV; COX4; COX4-1; COXIV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1; Cytochrome c oxidase subunit 4 isoform 1, mitochondrial; COX4I1

Application Instructions

Application table	Application	Dilution
	IHC-P	2.5 µg/ml
	WB	0.01 - 0.03 µg/ml

Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
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Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

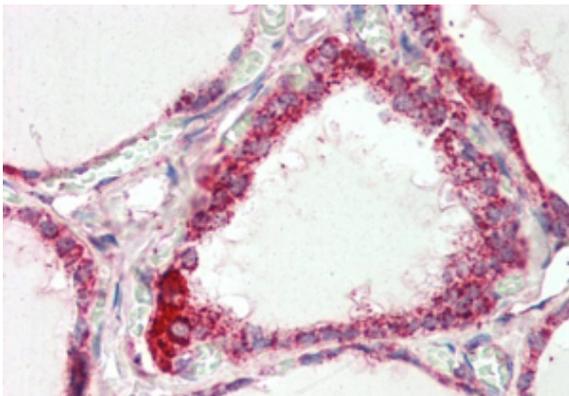
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

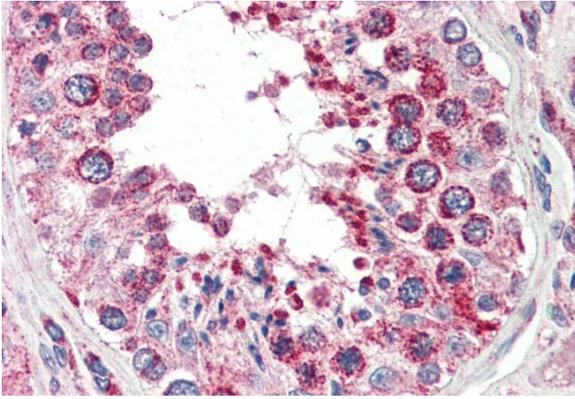
Database links	GeneID: 1327 Human Swiss-port # P13073 Human
Gene Symbol	COX4I1
Gene Full Name	cytochrome c oxidase subunit IV isoform 1
Background	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. Pseudogenes related to this gene are located on chromosomes 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]
Function	COX4 protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. [UniProt]
Research Area	Cancer antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody; Loading Control antibody for Cytoplasmic Fractions; Cytochrome-C fractionation Study antibody; Mitochondrial Marker antibody
Calculated Mw	20 kDa

Images



ARG64285 anti-COX4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thyroid gland tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64285 anti-COX4 antibody at 2.5 µg/ml dilution, followed by AP-staining.



ARG64285 anti-COX4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue.
Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64285 anti-COX4 antibody at 2.5 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



ARG64285 anti-COX4 antibody WB image

Western blot: 35 μg of Human muscle lysate stained with ARG64285 anti-COX4 antibody at 0.01 $\mu\text{g}/\text{ml}$ dilution and incubated at RT for 1 hour.