



Datasheet for ABIN2173360  
**anti-COX IV antibody (AA 51-169)**



[Go to Product page](#)

3 Images

6 Publications

### Overview

Quantity:	100 µL
Target:	COX IV (COX4I1)
Binding Specificity:	AA 51-169
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COX IV antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human COX4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

### Target Details

Target:	COX IV (COX4I1)
---------	-----------------

## Target Details

---

Alternative Name:	COX4 ( <a href="#">COX4I1 Products</a> )
Background:	Synonyms: COX4, COXIV, COX4-1, Cytochrome c oxidase subunit 4 isoform 1, mitochondrial, Cytochrome c oxidase polypeptide IV, Cytochrome c oxidase subunit IV isoform 1, COX IV-1, COX4I1 Background: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
Gene ID:	1327
UniProt:	<a href="#">P13073</a>
Pathways:	<a href="#">Proton Transport</a>

## Application Details

---

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

## Handling

---

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Handling

Expiry Date: 12 months

## Publications

Product cited in: Wang, Zhang, Li, Yue, Xu, Zhang, Yung, Li: "Fine particulate matter induces mitochondrial dysfunction and oxidative stress in human SH-SY5Y cells." in: **Chemosphere**, Vol. 218, pp. 577-588, (2019) ([PubMed](#)).

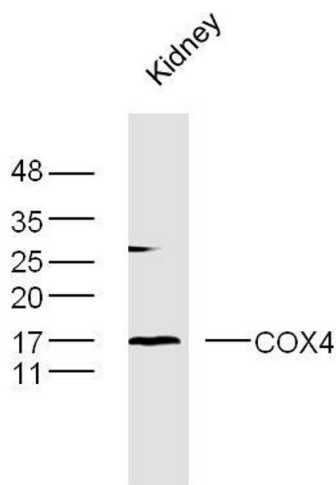
Wu, Luo, Zhou, Cheng, Lin, Liu, Liu, Li, Yang: "Succinate-induced neuronal mitochondrial fission and hexokinase II malfunction in ischemic stroke: Therapeutical effects of kaempferol." in: **Biochimica et biophysica acta**, Vol. 1863, Issue 9, pp. 2307-2318, (2017) ([PubMed](#)).

Kouam, Yuan, Njayou, He, Tsayem, Oladejo, Song, Moundipa, Gao: "Induction of Mkp-1 and Nuclear Translocation of Nrf2 by Limonoids from Khaya grandifoliola C.DC Protect L-02 Hepatocytes against Acetaminophen-Induced Hepatotoxicity." in: **Frontiers in pharmacology**, Vol. 8, pp. 653, (2017) ([PubMed](#)).

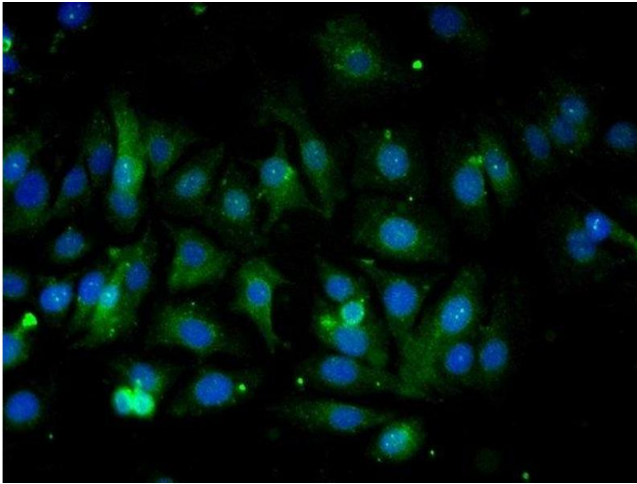
Gao, Wen, Zhou, Feng: "De-methylation of displacement loop of mitochondrial DNA is associated with increased mitochondrial copy number and nicotinamide adenine dinucleotide subunit 2 expression in colorectal cancer." in: **Molecular medicine reports**, Vol. 12, Issue 5, pp. 7033-8, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images

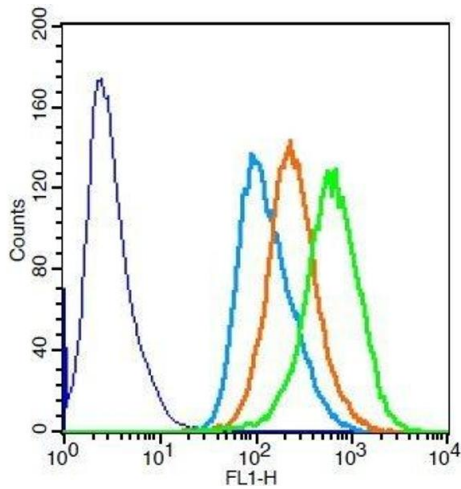


**Image 1.** Mouse kidney lysates probed with COX4 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.



### Immunofluorescence (Cultured Cells)

**Image 2.** Validation submitted by One World Lab. MCF-7 cells were stained with COX4 Polyclonal Antibody, Unconjugated, at 1:50 in PBS and incubated for one hour at room temperature, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.



### Flow Cytometry

**Image 3.** HeLa cells probed with Rabbit Anti-COX4 Polyclonal Antibody .