

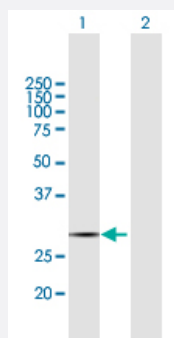
MaxPab®

# COX11 purified MaxPab mouse polyclonal antibody (B02P)

Catalog # H00001353-B02P

Size 50 ug

## Applications



### Western Blot (Transfected lysate)

Western Blot analysis of COX11 expression in transfected 293T cell line ([H00001353-T01](#)) by COX11 MaxPab polyclonal antibody.

Lane 1: COX11 transfected lysate(30.47 KDa).

Lane 2: Non-transfected lysate.

## Specification

### Product Description

Mouse polyclonal antibody raised against a full-length human COX11 protein.

### Immunogen

COX11 (AAH05895, 1 a.a. ~ 276 a.a) full-length human protein.

### Sequence

MGGLWRPGWRCVPFCGWRWIHPGSPTRAAERVEPFLRPEWSGTGGAERGLRWLGTWKRCSL  
RARHPALQPPRRPKSSNPFTRAQEEERRWQNKTTLYVAAVAVGMLGASYAAVPLYRLYCQTTG  
LGGSAVAGHASDKIENMVPVKDRIKISFNADVHASLQWNFRPQQTEMVVPGETALAFYRVKNPT  
DKPVGISTYNVPFEAGQYFNKIQCFCFEEQRLNPQEEVDMPVFFYIDPEFAEDPRMIKVDLITLSY  
TFFEAKEGHKLPVPGYN

### Host

Mouse

### Reactivity

Human

### Interspecies Antigen Sequence

Mouse (83); Rat (83)

### Quality Control Testing

Antibody reactive against mammalian transfected lysate.

### Storage Buffer

In 1x PBS, pH 7.4

### Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

## Gene Info — COX11

Entrez GeneID [1353](#)

GeneBank Accession# [BC005895](#)

Protein Accession# [AAH05895](#)

Gene Name COX11

Gene Alias COX11P

Gene Description COX11 homolog, cytochrome c oxidase assembly protein (yeast)

Omim ID [603648](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be a heme A biosynthetic enzyme involved in COX formation, according to the yeast mutant studies. However, the studies in Rhodobacter sphaeroides suggest that this gene is not required for heme A biosynthesis, but required for stable formation of the Cu(B) and magnesium centers of COX. This human protein is predicted to contain a transmembrane domain localized in the mitochondrial inner membrane. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene has been found on chromosome 6. [provided by RefSeq]

**Other Designations** COX11 homolog|cytochrome c oxidase assembly protein COX11|cytochrome c oxidase subunit 11

## Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Crohn Disease](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)