



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Datasheet

### COX11 (Human) Recombinant Protein (P01)

**Catalog Number:** H00001353-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human COX11 full-length ORF ( NP\_004366.1, 1 a.a. - 276 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MGGLWRPGWRCVPFCGWRWIHPGSPTRAAERVEPF  
LRPEWSGTGGAERGLRWLGTWKRCSLRARHPALQP  
PRRPKSSNPFTRAQEEERRRQNKTTLTLYVAAVAVGML  
GASYAAVPLYRLYCQTTGLGGS AVAGHASDKIENMVP  
VKDRIIKISFNADVHASLQWNFRPQQTEIYVVPGETALA  
FYRAKNPTDKPVI GISTYNIVPFEAGQYFNKIQCFCFEE  
QRLNPQEEVDMPVFFYIDPEFAEDPRMIKVDLITLSYTF  
FEAKEGHKLPVPGYN

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 57.8

**Interspecies Antigen Sequence:** Mouse (84); Rat (84)

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 1353

**Gene Symbol:** COX11

**Gene Alias:** COX11P

**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]