

# Recombinant Human COX11

Catalog No: #GP10319



Package Size: #GP10319-1 100ug

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## Description

Product Name	Recombinant Human COX11
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 115-276 amino acids of human cytochrome c oxidase assembly homolog 11 (yeast)
Target Name	cytochrome c oxidase assembly homolog 11 (yeast)
Other Names	COX11P
Accession No.	Swissprot:Q9Y6N1Gene Accession:BC005895
Uniprot	Q9Y6N1
GenelD	1353;
Storage	-20~-80°C, pH 7.6 PBS

## Background

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.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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