

COX 4**Cat.No. 298-0P; control peptide, 100 µg peptide (lyophilized)****Data Sheet**

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 1 to 18 from mouse COX4 (UniProt Id: P19783)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	298 002, 298 003
Remarks	This control peptide consists of the synthetic peptide (aa 1-18 in mouse COX 4) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The enzyme cytochrome C oxidase or **Complex 4** is a large heterooligomeric enzyme consisting of 13 subunits. It is localized to the inner mitochondrial membrane. It catalyzes the reduction of molecular oxygen to water coupled to the translocation of protons across the mitochondrial inner membrane. The resulting proton gradient finally drives ATP synthesis.

Selected General References

A complex of Cox4 and mitochondrial Hsp70 plays an important role in the assembly of the cytochrome c oxidase.
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Translational regulation of nuclear gene COX4 expression by mitochondrial content of phosphatidylglycerol and cardiolipin in *Saccharomyces cerevisiae*.
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Cytochrome c oxidase.
Ostermeier C, Iwata S, Michel H
Current opinion in structural biology (1996) 6(4): 460-6.