

## COX 4

Cat.No. 298 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> 1 : 500 <b>IHC:</b> 1 : 200 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Synthetic peptide corresponding to AA 1 to 18 from mouse COX4 (UniProt Id: P19783)
Reactivity	Reacts with: rat (P10888), mouse (P13073). Other species not tested yet.
Specificity	Specific for COX 4.
matching control	298-OP

### Selected General References

A complex of Cox4 and mitochondrial Hsp70 plays an important role in the assembly of the cytochrome c oxidase. Böttlinger L, Guiard B, Oeljeklaus S, Kulawiak B, Zufall N, Wiedemann N, Warscheid B, van der Laan M, Becker T Molecular biology of the cell (2013) 24(17): 2609-19.

Translational regulation of nuclear gene COX4 expression by mitochondrial content of phosphatidylglycerol and cardiolipin in *Saccharomyces cerevisiae*. Su X, Dowhan W Molecular and cellular biology (2006) 26(3): 743-53.

Cytochrome c oxidase. Ostermeier C, Iwata S, Michel H Current opinion in structural biology (1996) 6(4): 460-6.

### 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.