

**COX7A2L Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12338c****Specification**

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**COX7A2L Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O14548](#)

**COX7A2L Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 9167

**Other Names**

Cytochrome c oxidase subunit 7A-related protein, mitochondrial, COX7a-related protein,  
Cytochrome c oxidase subunit VIIa-related protein, EB1, COX7A2L, COX7AR, COX7RP

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**COX7A2L Antibody (Center) Blocking peptide - Protein Information**

**Name** COX7A2L

**Synonyms** COX7AR, COX7RP

**Function**

Involved in the regulation of oxidative phosphorylation and energy metabolism (By similarity).  
Necessary for the assembly of mitochondrial respiratory supercomplex (By similarity).

**Cellular Location**

Mitochondrion inner membrane.

**COX7A2L Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**COX7A2L Antibody (Center) Blocking peptide - Images**

**COX7A2L Antibody (Center) Blocking peptide - 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 similar to polypeptides 1 and 2 of subunit VII in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen.

**COX7A2L Antibody (Center) Blocking peptide - References**

Fornuskova, D., et al. Biochem. J. 428(3):363-374(2010) Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008) Schmidt, T.R., et al. J. Mol. Evol. 57(2):222-228(2003) Lee, N., et al. Am. J. Hum. Genet. 68(2):397-409(2001)