

# Anti-COXIV (Ser58) Antibody

Our Anti-COXIV (Ser58) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is p Catalog # AN1347

# **Specification**

# Anti-COXIV (Ser58) Antibody - Product Information

Primary Accession
Host
Clonality
Isotype
Calculated MW
P19783
Rabbit
Polyclonal
IgG
19530

# Anti-COXIV (Ser58) Antibody - Additional Information

Gene ID 12857

### **Other Names**

AL024441 antibody, COX 4 antibody, COX IV 1 antibody, COX IV antibody, COX IV-1 antibody, Cox4 antibody, COX41\_HUMAN antibody, Cox4a antibody, COX4B antibody, COX4I1 antibody, COX4I2 antibody, COX4L2 antibody, Cytochrome c oxidase polypeptide IV antibody, Cytochrome c oxidase subunit 4 isoform 1 mitochondrial antibody, Cytochrome c oxidase subunit IV antibody, Cytochrome c oxidase subunit IV isoform 1 antibody, Cytochrome c oxidase subunit IV isoform 2 (lung) antibody, Cytochrome c oxydase subunit 4 antibody, MGC105470 antibody, MGC72016 antibody

# Target/Specificity

COX, also known as cytochrome c oxidase, has 12 subunits that make up the transmembrane mitochondrial protein. Subunit IV has two isoforms; COXIV-1 and COXIV-2 (Huttermann et al., 2001). COXIV-1 is expressed ubiquitously while COXIV-2 is highly expressed in adult lung and low levels in brain and heart (Huttermann et al., 2001). Phosphorylation of amino acid residue Ser-58 of the COXIV-1 protein is a PKA-dependent regulation of COX and plays an important role in metabolism and CREB cycle activation (AcinPerez et al., 2011).

### **Format**

Antigen Affinity Purified from Pooled Serum

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

# **Precautions**

Anti-COXIV (Ser58) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **Shipping**

Blue Ice

## **Anti-COXIV (Ser58) Antibody - Protocols**

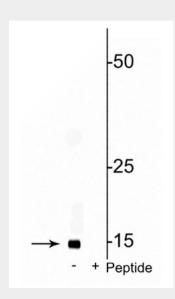




Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Anti-COXIV (Ser58) Antibody - Images**



Western blot of rat mitochondrial lysate showing specific immunolabeling of the  $\sim 17$  kDa COXIV phosphorylated at Ser58 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as the antigen, but not by the corresponding non-phosphopeptide (not shown).

## Anti-COXIV (Ser58) Antibody - Background

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