

Anti-COXIV (Ser58) Antibody

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

Product Information

ApplicationWBPrimary AccessionP19783HostRabbitClonalityPolyclonalIsotypeIgGCalculated MW19530

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).

Dilution WB~~1:1000

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

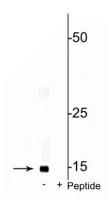
diagnostic or therapeutic procedures.

Shipping Blue Ice

Background

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).

Images



Western blot of rat mitochondrial lysate showing specific immunolabeling of the ~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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.