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Anti-COXIV (Ser58) Antibody

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

Product Information

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

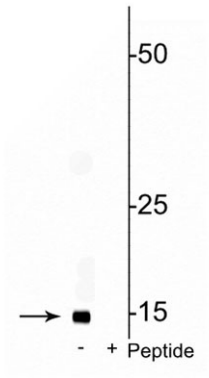
Additional Information

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 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).