

Anti-Phospho-COXIV (Ser58) COX4I1 Antibody

Catalog Number: P05442

About COX4i1

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).

Overview

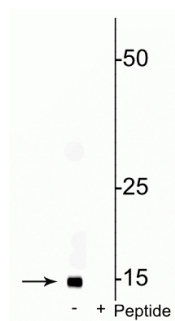
Product Name	Anti-Phospho-COXIV (Ser58) COX4I1 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Phospho-COXIV (Ser58) COX4I1 Antibody (Catalog # P05442). Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal 1B9
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P19783

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser58 of mouse COXIV, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Mouse.
Predicted Reactive Species	Bovine, Canine, Human, Primate, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on

	phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p>

Anti-Phospho-COXIV (Ser58) COX4I1 Antibody (P05442) 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).

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