

COXIII polyclonal antibody

Catalog: BS1674

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Cytochrome c oxidase subunit III, COX3 (also designated COIII, MTCO3 or oxidative phosphorylation (OxPhos) Complex IV, subunit III) is one of three mitochondrial DNA (mtDNA) encoded subunits (MTCO1-3) of respiratory Complex IV. Cytochrome c oxidase is a hetero-oligomeric enzyme composed of 13 subunits localized to the mitochondrial inner membrane and is the terminal enzyme complex of the electron transport chain. Complex IV catalyzes the reduction of molecular oxygen to water. The energy released is used to transport protons across the mitochondrial inner membrane. The resulting electro-chemical gradient is necessary for the synthesis of ATP. Complex IV contains 13 polypeptides; COX1, COX2 and COX3 (MTCO1-3) make up the catalytic core and are encoded by mtDNA while subunits IV, Va, Vb, VIa, VIb, VIc, VIIa, VIIb, VIIc and VIII are nuclear-encoded. Apoptosis in mammalian cells may be triggered by inhibition of mitochondrial COX. Specifically, reduction of COX3 has been associated with apoptosis and studies have shown that overexpression of COX3 results in a reduction of signals associated with apoptosis.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 30 kDa

Swiss-Prot:

Q7JCX7

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

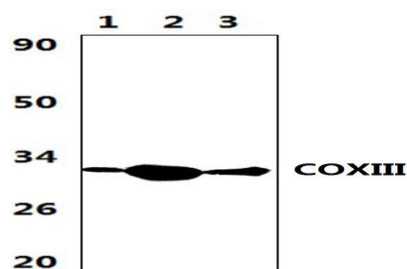
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

COXIII polyclonal antibody detects endogenous levels of COXIII protein.

DATA:



Western blot (WB) analysis of COXIII polyclonal antibody at 1:1000 dilution

Lane1:HepG-2 whole cell lysate(50µg)

Lane2:A549 whole cell lysate(57µg)

Lane3:The muscle tissue lysate of Mouse (33µg)

Note:

For research use only, not for use in diagnostic procedure.

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