

## MTCO2 polyclonal antibody

Catalog: BS90888

Host: Rabbit

Reactivity: Human

**BackGround:**

Cytochrome c oxidase subunit II (COX2), also designated COII, MTCO2 or oxidative phosphorylation (OxPhos) complex IV, subunit II, 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 electrochemical 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. Defects in COX2 are associated with tumor formation.

**Product:**

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

**Molecular Weight:**

25 kDa

**Swiss-Prot:**

P00403(Human)

**Purification&Purity:**

ProA affinity purified

**Applications:**

WB:1:1,000-1:2,000

ICC:1:50-1:200

IHC:1:50-1:200

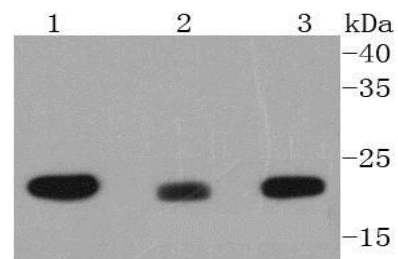
FC:1:50-1:100

**Storage&Stability:**

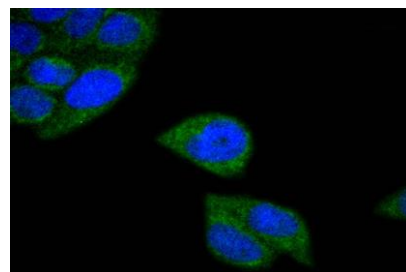
Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

**Specificity:**

MTCO2 polyclonal antibody detects endogenous levels of MTCO2 protein.

**DATA:**

Western blot analysis of MTCO2 on different lysates using anti-MTCO2 antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7 Lane 2: THP-1 Lane 3: Hela



ICC staining MTCO2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**Note:**

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

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