



# COXIV

## Mouse monoclonal Antibody

### #53173

**Catalog Number:** 53173

**Amount:** 100µg/100µl

**Swiss-Prot No. :** P13073

**Gene name:**cox iv

**Gene id:**1327

**Clone Number:** 4D11-B3-E8

**Form of Antibody:**Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol

**Storage/Stability:** Store at -20°C/1 year

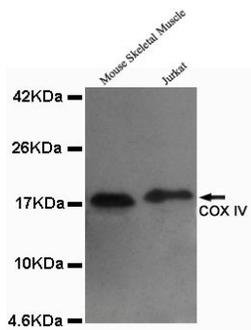
**Immunogen:** A synthetic peptide corresponding to carboxyl terminal residues of human COX IV

**Purification:** affinity-chromatography

**Specificity/Sensitivity:**This antibody detects endogenous levels of COX IV and does not cross-react with related proteins

**Reactivity:** Human,Mouse,Rat,Hamster,Goat,Monkey

**Applications:** Predicted MW: 17 kd WB: 1:1000 ICC:1:150



Western blot detection of COX IV in Mouse skeletal muscle and Jurkat lysates using COX IV mouse mAb (1:1000diluted). Predicted band size: 17KDa.Observed band size: 17KDa.

#### Background :

Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it.