# COX4I2 Monoclonal Antibody

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| **Catalog No** | YP-Ab-02348 |
| **Isotype** | IgG |
| **Reactivity** | Human |
| **Applications** | WB;FCM;IF |
| **Gene Name** | COX4I2 |
| **Immunogen** | Purified recombinant human COX4I2 (C-terminus) protein fragments expressed in E.coli. |
| **Specificity** | COX4I2 Monoclonal Antibody detects endogenous levels of COX4I2 protein. |
| **Formulation** | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol. |
| **Source** | Monoclonal, Mouse |
| **Purification** | Affinity purification |
| **Dilution** | Western Blot: 1/1000 - 1/2000. Flow cytometry: 1/100 - 1/200. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications. |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | COX IV 2;COX IV-2;COX4;COX4 2;COX4B;COX4I2;Cytochrome c oxidase subunit 4 isoform 2 mitochondrial;COX4L2;Cytochrome c oxidase subunit 4 isoform 2;mitochondrial;Cytochrome c oxidase subunit IV isoform 2 |
| **Observed Band** | |
| **Calculated Molecular Weight** | |
| **Cell Pathway** | Mitochondrion inner membrane ; Single-pass membrane protein . |
| **Tissue Specificity** | Highly expressed in lung. |
| **Function** | function:This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport., similarity:Belongs to the cytochrome c oxidase IV family.,tissue specificity:Highly expressed in lung., |
| **Background** | Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear |

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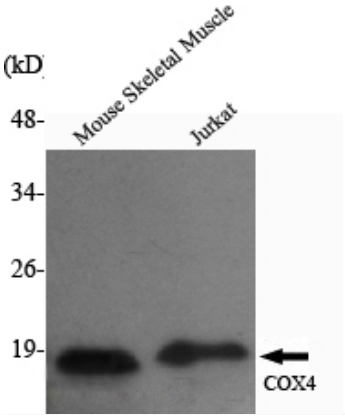
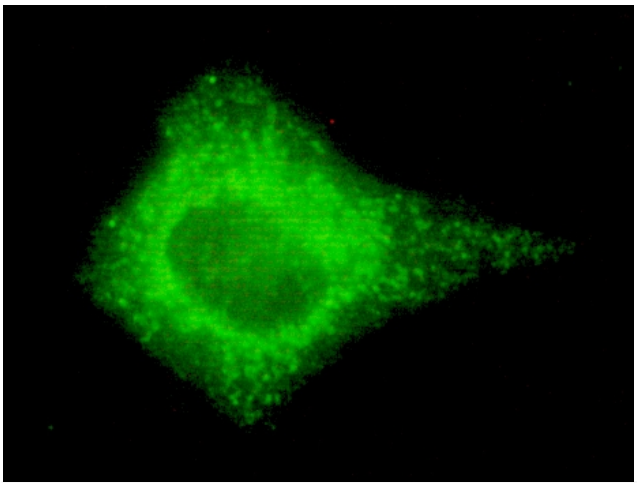
| | genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes isoform 2 of subunit IV. Isoform 1 of subunit IV is encoded by a different gene, however, the two genes show a similar structural organization. Subunit IV is the largest nuclear encoded subunit which plays a pivotal role in COX regulation. [provided by RefSeq, Jul 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

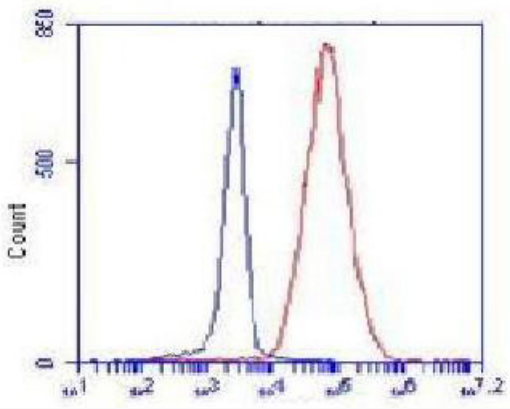
## Products Images




Western Blot analysis using COX4I2 Monoclonal Antibody against mouse skeletal muscel, Jurkat cell lysate.



Immunofluorescence analysis of HeLa cells using COX4I2 Monoclonal Antibody.




Flow cytometric analysis of K562 cells stained with COX4I2 Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.