



COX IV Monoclonal Antibody(6C8)

Catalog No	YP-Ab-02374
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;IHC;IF;
Gene Name	COX4I1
Immunogen	Recombinant Protein of Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
Specificity	The antibody detects endogenous COX IV protein.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB: 1:1000-3000 IF 1:200 IHC 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	COX IV;COX4I1;Cytochrome c oxidase subunit 4 isoform 1;mitochondrial;COX4; Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit IV isoform 1;COX IV-1
Observed Band	15kD
Calculated Molecular Weight	15kD
Cell Pathway	Mitochondrion inner membrane ; Single-pass membrane protein .
Tissue Specificity	Ubiquitous.
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:Ubiquitous.,
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. Pseudogenes related to this gene are located on chromosomes

matters needing attention

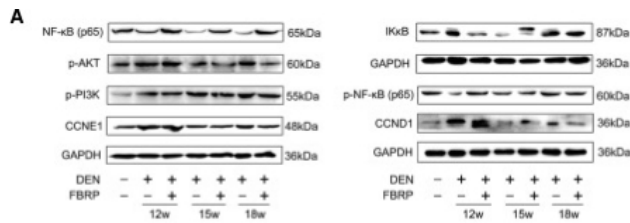
Avoid repeated freezing and thawing!

Usage suggestions

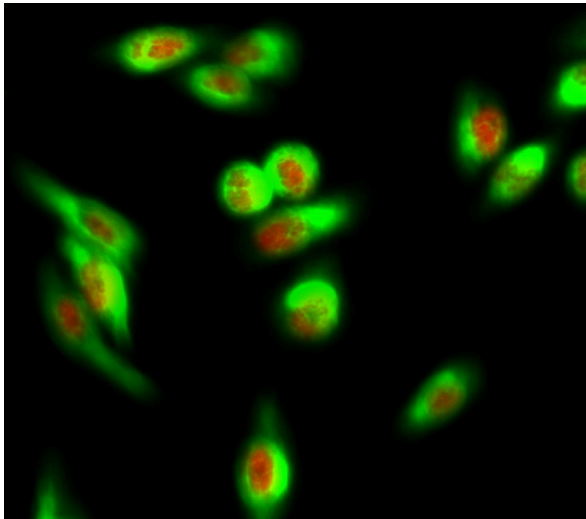
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



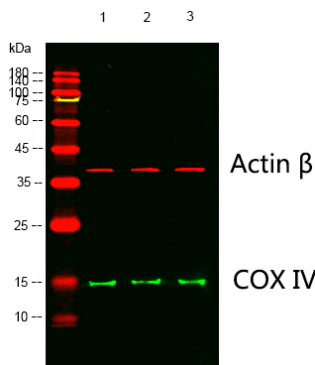
Products Images



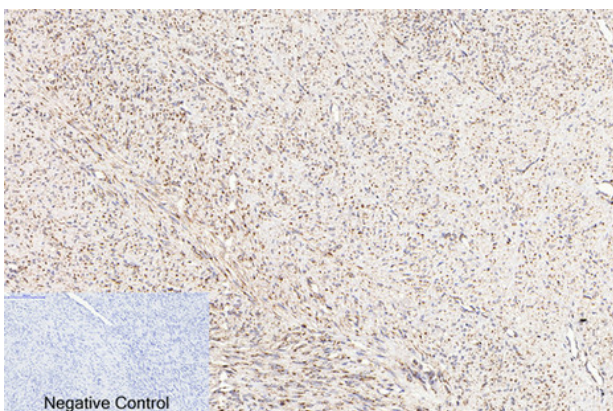
Zhang, Yanqiong, et al. "A discovery of clinically approved formula FBRP for repositioning to treat HCC by inhibiting PI3K/AKT/NF-κB activation." *Molecular Therapy-Nucleic Acids* 19 (2020): 890-904.



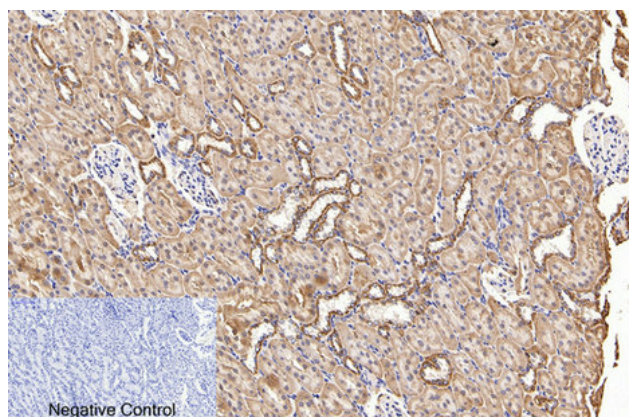
Immunofluorescence analysis of Hela cell. 1, AF-10 Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). COX IV Monoclonal Antibody (6C8) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



Western blot analysis of lysates from 1) COS7, 2) 3T3, 3) Hela cells, (Green) primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody (Immunoway: RS23910) was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclonal Antibody (Immunoway: YT0099) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody (Immunoway: RS23720) was diluted at 1:10000, 37° 1hour.



Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1, COX IV Monoclonal Antibody (6C8) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1, COX IV Monoclonal Antibody(6C8) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.