

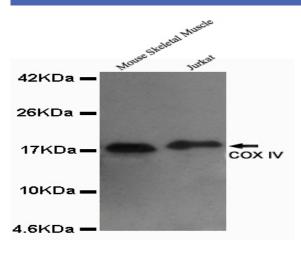
COX IV mouse mAb

Catalog No :	YM1222
Popotivity -	Human;Mouse;Rat;Hamster;Goat;Monkey
Reactivity :	numan,wouse,nat,namster,Goat,wonkey
Applications :	WB;FC;ICC;IP;IHC
Target :	COX IV
Fields :	>>Oxidative phosphorylation;>>Metabolic pathways;>>Cardiac muscle contraction;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
Gene Name :	cox iv
Human Gene Id :	1327
Human Swiss Prot	P13073
No:	
Mouse Swiss Prot No :	P19783
Immunogen :	A synthetic peptide corresponding to carboxyl terminal residues of human COX
Specificity :	This antibody detects endogenous levels of COX IV and does not cross-react with related proteins.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	wb 1:1000 icc 1:150 fcm 1:100
Purification :	The antibody was affinity-purified from mouse ascites by affinity- chromatography using epitope-specific immunogen.
	1 mg/ml



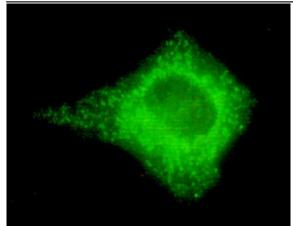
Dest 10013 for infinitunolog	
Storaget Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	17kD
Cell Pathway :	Oxidative phosphorylation;Cardiac muscle contraction;Alzheimer's disease;Parkinson's disease;Huntington's disease;
Background :	Cytochrome c oxidase (COX) is the terminal 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
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.,
Subcellular Location :	Mitochondrion inner membrane ; Single-pass membrane protein .
Expression :	Ubiquitous.

Products Images

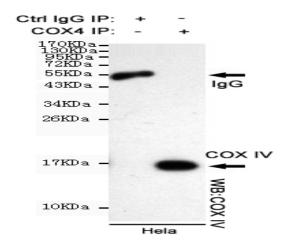


Western blot detection of COX IV in Mouse skeletal muscel and Jurkat lysates using COX IV mouse mAb (1:1000 diluted). Predicted band size: 17KDa.Observed band size: 17KDa.

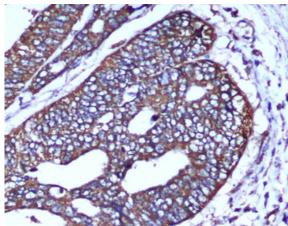




Immunocytochemistry of HeLa cells using anti-COX IV mouse mAb diluted 1:150.

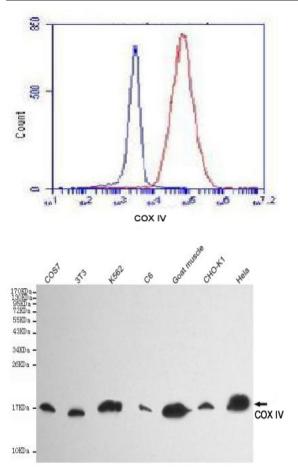


Immunoprecipitation analysis of Hela cell lysates using COX IV mouse mAb.



Immunohistochemical analysis of paraffin-embedded human colorectal carcinoma with COX IV Mouse mAb (4D11-B3-E8,1:50 diluted), showing cytoplasm localization. A high pressure mediated antigen retrieval step was performed in citrate buffer(pH6.0).





Flow Cytometry analysis of K562 cells stained with COX4 (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.

Western blot detection of COX IV in Goat muscle,CHOk1,COS7,3T3,Hela,C6 and K562 cell lysates using COX IV mouse mAb (1:5000 diluted).Predicted band size:17KDa.Observed band size:17KDa.