COX IV Mouse Monoclonal Antibody (100A-6C8)

Catalog No: #37972

Orders: order@signalwayantibody.com
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Description

Product Name	COX IV Mouse Monoclonal Antibody (100A-6C8)
Host Species	Mouse
Clonality	Monoclonal
Clone No.	100A-6C8
Purification	Affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Hu Rt Ms
Specificity	Antibody detects endogenous COX IV protein.
Target Name	COX IV
Other Names	COX IV-1; COX4; COX41; COX4I1; COXIV
Accession No.	Swiss-Prot#:P13073
Uniprot	P13073
GeneID	1327;
SDS-PAGE MW	17kd
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

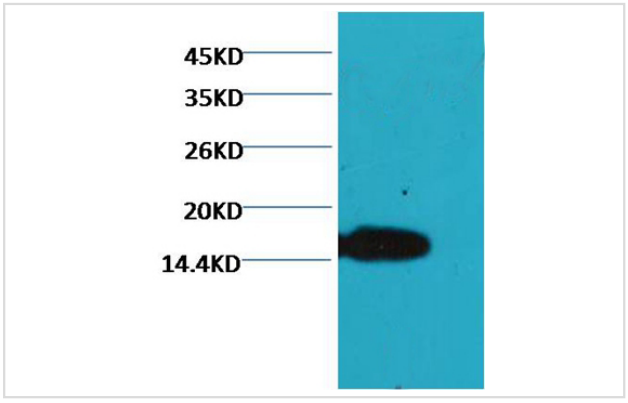
Application Details

WB dilution: 1:1000~1:3000

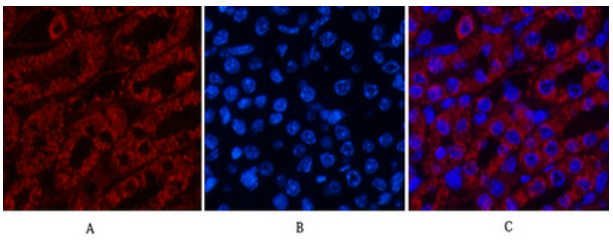
IHC dilution:1:50-300

IF dilution:1:200

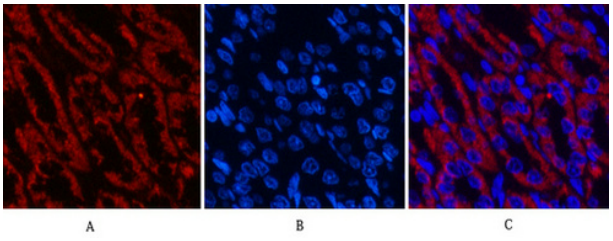
Images



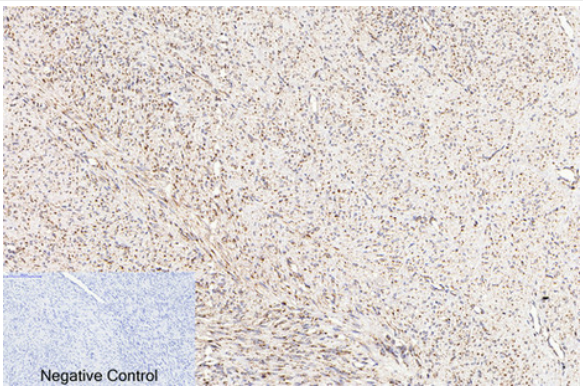
Western blot analysis of Hela cells, using #37972 diluted at 1:3,000.



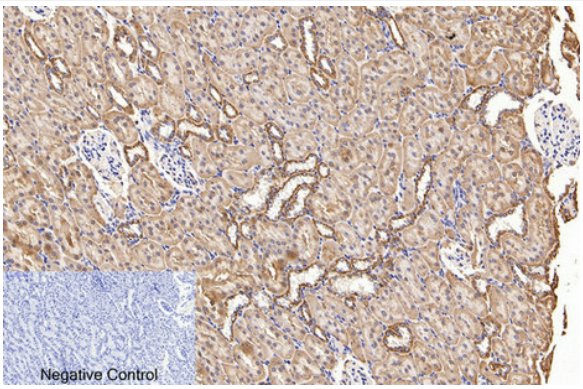
Immunofluorescence analysis of Mouse-kidney tissue. 1,COX IV Monoclonal Antibody(6C8)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



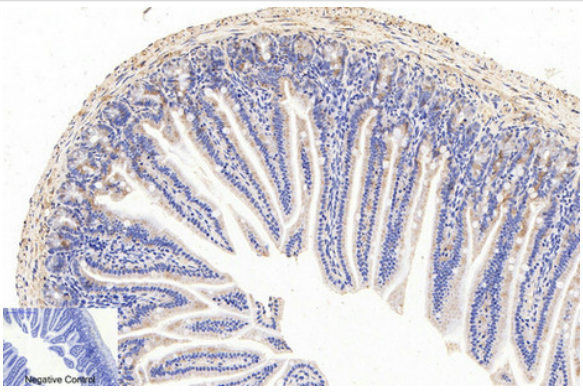
Immunofluorescence analysis of Rat-kidney tissue. 1,COX IV Monoclonal Antibody(6C8)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



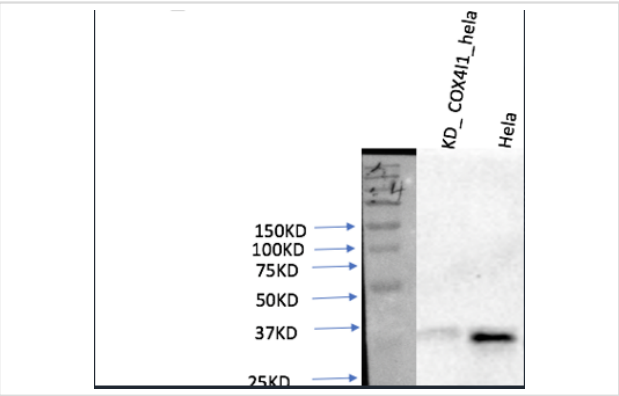
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,COX IV Monoclonal Antibody(6C8) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control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



Western blotting analysis using COX IV Mouse Monoclonal Antibody (100A-6C8) #37972.

Background

The enzyme cytochrome c oxidase or Complex IV, EC 1.9.3.1) is a large transmembrane protein complex found in bacteria and the mitochondrion.It is the last enzyme in the respiratory electron transport chain of mitochondria (or bacteria) located in the mitochondrial (or bacterial) membrane. It receives an electron from each of four cytochrome c molecules, and transfers them to one oxygen molecule, converting molecular oxygen to two molecules of water. In the process, it binds four protons from the inner aqueous phase to make water, and in addition translocates four protons across the membrane, helping to establish a transmembrane difference of proton electrochemical potential that the ATP synthase then uses to synthesize ATP.

Note: This product is for in vitro research use only