

Anti-COX4I1 Antibody (4G766)

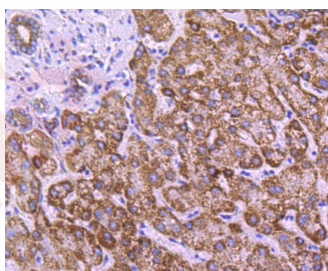
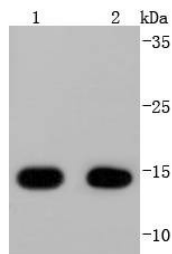
Product Details

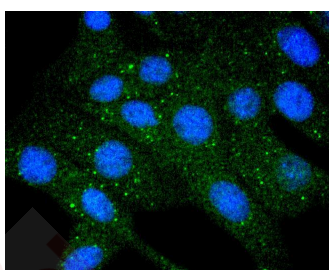
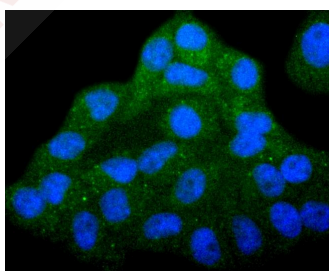
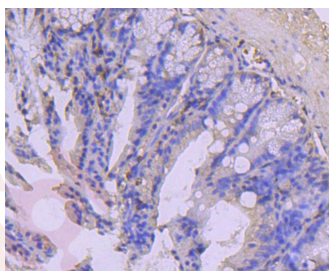
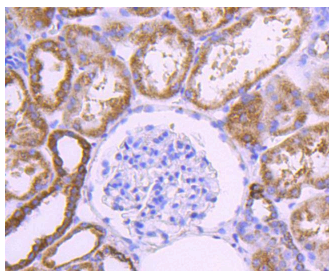
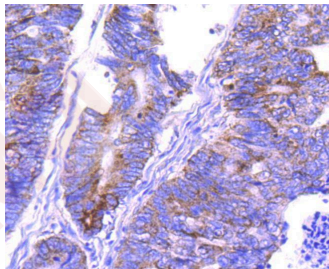
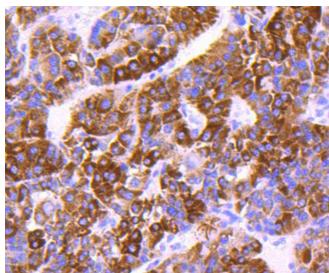
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 16 kDa.
Clone:	4G766
Purification:	ProA affinity purified

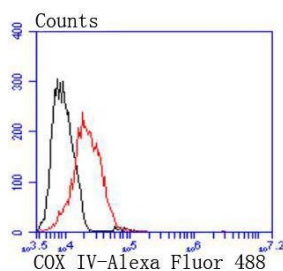
Applications

Verified Activity:

1. Western blot analysis of COX IV on different lysates using anti-COX IV antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse heart, Lane 2: Rat heart.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-COX IV antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-COX IV antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-COX IV antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-COX IV antibody. Counter stained with hematoxylin.
7. ICC staining COX IV in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining COX IV in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. Flow cytometric analysis of MCF-7 cells with COX IV antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.







Application: FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P13073

Synonyms: mitochondrial;Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;COX4I1;COX4;Cytochrome c oxidase subunit IV isoform 1 (COX IV-1)

Research Background

Cytochrome c oxidase (COX) functions as the terminal oxidase of the respiratory chain that uses cytochrome c as an electron donor to drive a proton gradient across the inner mitochondrial membrane. The mammalian COX apoenzyme is a heteromer consisting of three mitochondrial encoded catalytic subunits and several nuclear gene encoded structural subunits. COX contains two iron-coordination sites and two copper-coordination sites. Cytochrome c oxidase IV (COX4) is a nuclear-encoded subunit of COX that may play a role in regulating COX activity. COX4 is expressed ubiquitously in adult human tissue with the strongest levels of expression in the pancreas and moderate expression levels in heart, skeletal muscle and placenta.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481