

A21240

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COX7A1 Rabbit mAb

Catalog No.: A21240 **Recombinant**

Basic Information

Observed MW

9kDa

Calculated MW

9kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC53426

Background

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (muscle isoform) of subunit VIIa and the polypeptide 1 is present only in muscle tissues. Other polypeptides of subunit VIIa are present in both muscle and nonmuscle tissues, and are encoded by different genes.

Recommended Dilutions

WB 1:2000 - 1:20000

IHC-P 1:2000 - 1:6000

IF/ICC 1:50 - 1:200

Immunogen Information

Gene ID

1346

Swiss Prot

P24310

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-79 of human COX7A1 (NP_001855.1).

Synonyms

COX7A; COX7AH; COX7AM; COX7A1

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

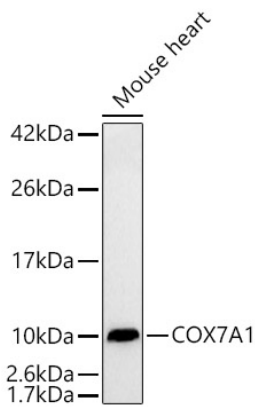
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from Mouse heart, using COX7A1 Rabbit mAb (A21240) at 1:20000 dilution.

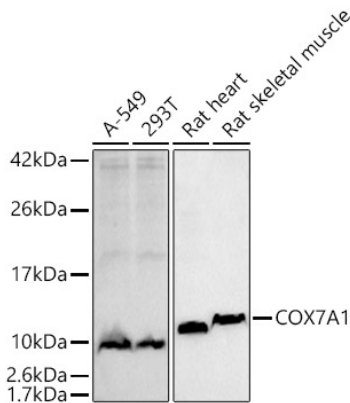
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of various lysates, using COX7A1 Rabbit mAb (A21240) at 1:20000 dilution.

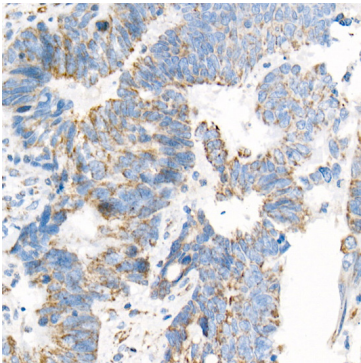
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

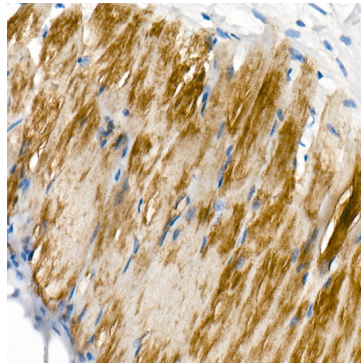
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

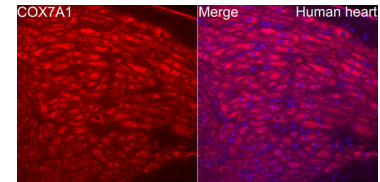
Exposure time: 90s.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using COX7A1 Rabbit mAb (A21240) at dilution of 1:5000 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Human skeletal muscle using COX7A1 Rabbit mAb (A21240) at dilution of 1:5000 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Confocal imaging of Human heart using COX7A1 Rabbit mAb(A21240, 1:100)(Red).DAPI was used for nuclear staining(blue).Objective:40x.