
COX4I1 Mouse mAb, Mitochondrial Loading Control

Catalog Number: bsm-33037M

Target Protein: COX4I1

Concentration: 1mg/ml

Form: Size : 50ul/100ul/500ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 8D8

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:200-800)

Reactivity: Human, Mouse, Rat

Predicted MW: 17 kDa

Entrez Gene: 1327

Swiss Prot: P13073

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/500ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

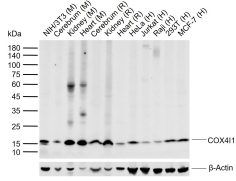
0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

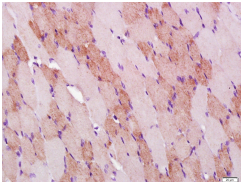
Background: Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. 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. [provided by RefSeq, Jul 2008]

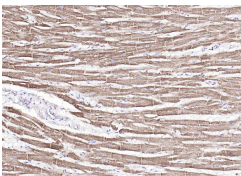
VALIDATION IMAGES



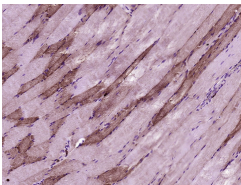
Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Mouse Kidney tissue lysates Lane 4: Mouse Heart tissue lysates Lane 5: Rat Cerebrum tissue lysates Lane 6: Rat Kidney tissue lysates Lane 7: Rat Heart tissue lysates Lane 8: Human HeLa cell lysates Lane 9: Human Jurkat cell lysates Lane 10: Human Raji cell lysates Lane 11: Human 293T cell lysates Lane 12: Human MCF-7 cell lysates Primary: Anti-COX4I1(Mitochondrial Loading Control) (bsm-33037M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 17 kDa Observed band size: 17 kDa



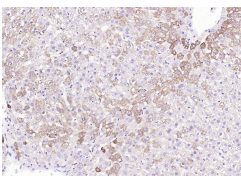
Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COX4) Monoclonal Antibody, Unconjugated (bsm-33037M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



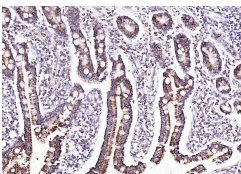
Paraformaldehyde-fixed, paraffin embedded (human heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (COX4I1(Mitochondrial Loading Control)) Monoclonal Antibody, Unconjugated (bsm-33037M) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COX4) Monoclonal Antibody, Unconjugated (bsm-33037M-8D8) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (COX4I1(Mitochondrial Loading Control)) Monoclonal Antibody, Unconjugated (bsm-33037M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human duodenum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (COX4I1(Mitochondrial Loading Control)) Monoclonal Antibody, Unconjugated (bsm-33037M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=13.934] Han Yan. et al. FAM3A maintains metabolic homeostasis by interacting with F1-ATP synthase to regulate the activity and assembly of ATP synthase. METABOLISM. 2022 Dec;:155372 WB ; Mouse, Human . 36470472

[IF=9.685] Chen, Ying. et al. Elevated SFXN2 limits mitochondrial autophagy and increases iron-mediated energy production to promote

multiple myeloma cell proliferation. CELL DEATH DIS. 2022 Sep;13(9):1-14 IF ; Human . 36163342

[IF=6.8] Yixian Ren. et al. CDK5-USP30 signaling pathway regulates MAVS-mediated inflammation via suppressing mitophagy in MPTP/MPP+ PD model. ECOTOX ENVIRON SAFE. 2024 Jul;279:116446 WB ; Mouse . 38772138

[IF=3.585] Li LL et al. ATPR Induces Acute Promyelocytic Leukemia Cells Differentiation and Growth Arrest by Blockade of SHP2/Rho/ROCK1 Pathway. Toxicol Appl Pharmacol. 2020 May 15;399:115053. Other ; . 32417439