

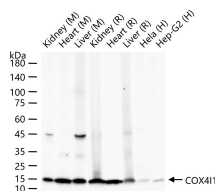
bsm-33037R**[Primary Antibody]****COX4I1 | COX4 Recombinant Rabbit mAb,
Loading Control****BioSS**
ANTIBODIES

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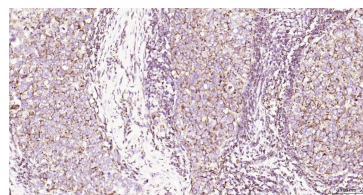
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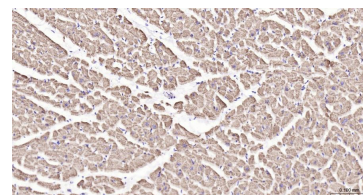
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 8A3**GeneID:** 1327**SWISS:** P13073**Target:** COX4I1 | COX4**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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]**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**Reactivity:** Human, Mouse, Rat**Predicted
MW.:** 17 kDa**Observed
MW.:** 15 kDa**Subcellular
Location:** Cytoplasm**— VALIDATION IMAGES —**

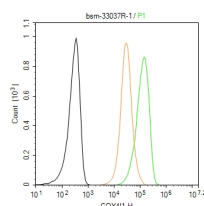
25 µg total protein per lane of various lysates (see on figure) probed with COX4I1 monoclonal antibody, unconjugated (bsm-33037R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with COX4I1 Monoclonal Antibody, Unconjugated(bsm-33037R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with COX4I1 Monoclonal Antibody, Unconjugated(bsm-33037R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



The HeLa (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

40 min at room temperature. Primary Antibody
(green): Rabbit Anti-COX4I1 antibody
(bsm-33037R); 1 $\mu\text{g}/10^6$ cells; Isotype Control
(orange): Rabbit IgG (bs-0295P). Blank control
(black): PBS. Acquisition of 20,000 events was
performed.