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**[ Primary Antibody ]**

# Rabbit Anti-COX18 antibody

**Catalog Number: SL14006R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

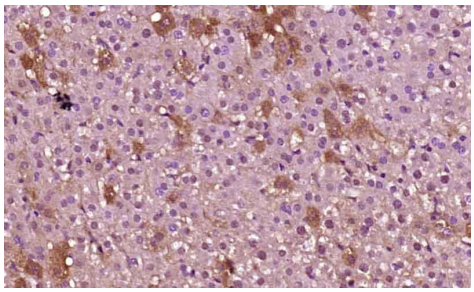
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | COX18 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human COX18: 61-160/333 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Sheep) |
| **Predicted MW.:** | 37kDa |
| **Subcellular Location:** | cytoplasmic Mitochondrion |
| **Background:** | COX18 encodes a cytochrome c oxidase (COX)-assembly protein. The S. cerevisiae Cox18 protein catalyzes the insertion of the Cox2 (MTCO2; MIM 516040) C-terminal tail into the mitochondrial inner membrane, an intermediate step in the assembly of complex IV of the mitochondrial respiratory chain (Sacconi et al., 2005 [PubMed 16212937]).[supplied by OMIM, Mar 2008]<br>**Function:** COX18 is required for the insertion of integral membrane proteins into the mitochondrial inner membrane. COX18 is essential for the activity and assembly of cytochrome c oxidase. COX18 plays a central role in the translocation and export of the C terminal part of the COX2 protein into the mitochondrial intermembrane space. COX18 encodes a cytochrome c oxidase (COX) assembly protein. The S. cerevisiae Cox18 protein catalyzes the insertion of the Cox2 (MTCO2; MIM 516040) C terminal tail into the |

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

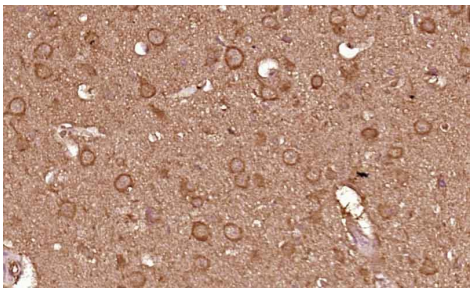
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| | |
|---|---|
| | mitochondrial inner membrane, an intermediate step in the assembly of complex IV of the mitochondrial respiratory chain.<br>**Subcellular Location:** Mitochondrion inner membrane; Multi pass membrane protein.<br>**Database links:**<br>**Entrez Gene:** 285521 Human<br>Omim: 610428 Human<br>**SwissProt:** Q8N8Q8 Human |

## [ VALIDATION IMAGES ]



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; Antibody incubation with (COX18) Polyclonal Antibody, Unconjugated (SL14006R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (COX18) Polyclonal Antibody, Unconjugated (SL14006R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining..

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