SunLong Biotech Co.,LTD
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[Primary Antibody]

Mouse Anti-COX1/MTCO1 antibody

Catalog Number: SLM-60242M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	E7A11
Target:	COX1/MTCO1
Purification:	Affinity purified by Protein G
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:	WB=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat)
Subcellular Location:	The cell membrane
Background:	Contributes to cytochrome-c oxidase activity. Predicted to be involved in electron transport coupled proton transport and mitochondrial electron transport, cytochrome c to oxygen. Part of mitochondrial respiratory chain complex III and mitochondrial respiratory chain complex IV. [provided by Alliance of Genome Resources, Apr 2022] **Subcellular Location:** Mitochondrion inner membrane; Multi-pass membrane protein. **Database links:** **Entrez Gene:** 4512 Human **Entrez Gene:** 17708 Mouse **Entrez Gene:** 26195 Rat **SwissProt:** P00395 Human **SwissProt:** P00397 Mouse **SwissProt:** P05503 Rat A component of cytochrome c oxidase, it is the last enzyme in the mitochondrial electron transport chain that drives oxidative phosphorylation.

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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	The respiratory chain contains three multi-subunit complexes, succinate dehydrogenase (complex II, CII), ubiquinone cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII), and cytochrome c oxidase (complex IV, CIV), which cooperatively transfer electrons derived from NADH and succinate to molecular oxygen, forming an electrochemical gradient across the inner membrane to drive transmembrane transport and ATP synthase.

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