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Anti-MTCO2 Rabbit mAb [24C08]

Catalog No.: A52087

Basic Information

Catalog No. (Cat.No.)	A52087
Host species	Rabbit
Reactivity	Human
Applications	WB,IHC,IP,IF,ELISA
Synonyms	MTCO2,MT-CO2,COX2,Cytochrome c oxidase subunit II,COXII

Product Information

Target	MTCO2
Molecular Weight(Calculated)	26 kDa
Molecular Weight(Observed)	21 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	24C08
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Mitochondrially-encoded cytochrome c oxidase subunit 2
Gene Name	*MT-CO2*
Domain	NA
Background	MTCO2 (Mitochondrial cytochrome c oxidase subunit 2) is a subunit of mitochondrial respiratory chain complex IV and mediates electron-transfer during mitochondrial oxidative phosphorylation. Encoded by mitochondrial DNA, MTCO2 localizes to inner mitochondrial membrane and serves as a core component of complex IV. It catalyzes electron transfer from cytochrome c to molecular oxygen to fuel ATP production. MTCO2 abundance mirrors mitochondrial respiratory capacity. Its expression decreases upon mitochondrial damage, oxidative stress and hypoxia, linking to energy-metabolism dysfunction and apoptosis activation.