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Anti-NDUFS3 Rabbit mAb [72B87]

Catalog No.: A52231

Basic Information

Catalog No. (Cat.No.)	A52231
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	NDUFS3,B17,PSAD,NDUFS3

Product Information

Target	NDUFS3
Molecular Weight(Calculated)	30 kDa
Molecular Weight(Observed)	30 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	72B87
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	1:500-1:2000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	NADH-ubiquinone oxidoreductase core subunit S3
Gene Name	*NDUFS3*
Domain	NA
Background	NDUFS3 (NADH:ubiquinone oxidoreductase core subunit S3) is a nuclear-encoded core subunit of mitochondrial Respiratory Complex I, responsible for Complex I assembly and oxidative phosphorylation. Localized to inner mitochondrial membrane, NDUFS3 acts as core component of NADH dehydrogenase complex, initiating electron transport and building proton gradient for ATP production. Mutation or depletion of NDUFS3 causes severe Complex-I deficiency and mitochondrial encephalopathy. Oxidative stress reduces NDUFS3 abundance and aggravates ROS accumulation. Altered NDUFS3 expression drives metabolic reprogramming in cancers. NDUFS3 protein level mirrors Complex-I integrity, and protein degradation occurs upon mitochondrial damage.