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Anti-PGC1β Rabbit mAb [47C06]

Catalog No.: A52271

Basic Information

Catalog No. (Cat.No.)	A52271
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IP,ELISA
Synonyms	PGC1β,PGC-1β,PGC1beta,peroxisome proliferator-activated receptor gamma coactivator 1-beta

Product Information

Target	PGC1β
Molecular Weight(Calculated)	113 kDa
Molecular Weight(Observed)	113 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	47C06
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
IP	1:50-1:200
ELISA	1:5000-1:20000

Target Information

Protein Name	Peroxisome proliferator-activated receptor-gamma coactivator-1-beta
Gene Name	*PPARGC1B*
Domain	NA
Background	PPARGC1B (PGC-1β, PPAR gamma coactivator 1-beta) belongs to transcriptional co-activator family and co-regulates mitochondrial biogenesis, oxidative metabolism and lipid-gene expression. Predominantly nuclear-localized, PGC-1β interacts with nuclear receptors including PPAR and ERR to boost transcription of mitochondrial genes and promote mitochondrial proliferation and oxidative phosphorylation. It supports brown-adipose thermogenesis, hepatic lipid turnover and oxidative phenotype in skeletal muscle. PGC-1β shares partial functional redundancy with PGC-1α yet displays distinct tissue distribution. Dysregulated PGC-1β drives mitochondrial dysfunction in metabolic disorders; in tumors it rewires cellular metabolism to sustain proliferation.