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Anti-Pyruvate Dehydrogenase E1α Rabbit mAb [24H31]

Catalog No.: A52268

Basic Information

Catalog No. (Cat.No.)	A52268
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Pyruvate Dehydrogenase E1α,PDH-E1α,pyruvate dehydrogenase E1 subunit alpha,PDH-E1α,PDHA1

Product Information

Target	Pyruvate Dehydrogenase E1α
Molecular Weight(Calculated)	43 kDa
Molecular Weight(Observed)	43 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	24H31
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	Pyruvate dehydrogenase E1 subunit alpha-1
Gene Name	*PDHA1*
Domain	NA
Background	PDHA1 (Pyruvate dehydrogenase E1 subunit alpha) is E1-alpha subunit of pyruvate dehydrogenase complex, acting at metabolic hub to catalyze oxidative decarboxylation of pyruvate into acetyl-CoA. Residing in mitochondrial matrix, PDHA1 constitutes E1 component of pyruvate dehydrogenase complex and bridges glycolysis and TCA cycle. Its catalytic activity is switched off by phosphorylation and restored upon dephosphorylation, serving as central metabolic checkpoint. PDHA1 deficiency causes mitochondrial metabolic disorders. In many tumors, PDHA1 activity is repressed to facilitate Warburg effect and enhance glycolysis.