IDHP Monoclonal Antibody

Catalog No	YP-mAb-10826
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	IDH2
Immunogen	Synthesized peptide derived from human IDHP
Specificity	This antibody detects endogenous levels of human IDHP
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IDHP;IDH2;Isocitrate dehydrogenase [NADP];mitochondrial (IDH;EC 1.1.1.42; ICD-M;IDP;NADP(+)-specific ICDH;Oxalosuccinate decarboxylase); mitochondrial (IDH
Observed Band	48kD
Calculated Molecular Weight	48kD
Cell Pathway	Mitochondrion .
Tissue Specificity	Colon,Heart,Kidney,Skin,
Function	catalytic activity:Isocitrate + NADP(+) = 2-oxoglutarate + CO(2) + NADPH., catalytic activity:Oxalosuccinate + NADP(+) = 2-oxoglutarate + CO(2) + NADPH., cofactor:Binds 1 magnesium or manganese ion per subunit.,function:Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.,similarity:Belongs to the isocitrate and isopropylmalate dehydrogenases family.,subunit:Homodimer.,
Background	Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate

	dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants. [provided by Ref
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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