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Isocitrate Dehydrogenase Protein (IDH) (Myc-DYKDDDDK Tag)





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Quantity:	20 μg
Target:	Isocitrate Dehydrogenase (IDH)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Isocitrate Dehydrogenase protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD), Functional Studies (Func), Protein Interaction (PI)
Product Details	
Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	Recombinant human Isocitrate dehydrogenase / IDH protein expressed in HEK293 cells.
	Produced with end-sequenced ORF cloneTested for bioactivity.
Purity:	·

WT/R132H heterodimers are inactive.

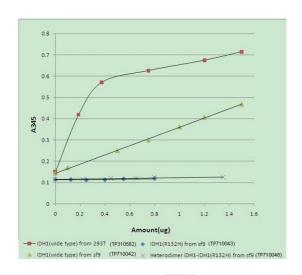
Target Details

Target:	Isocitrate Dehydrogenase (IDH)
Alternative Name:	Isocitrate Dehydrogenase,idh (IDH Products)
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 cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal
	targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the
	regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-
	CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate,
	namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant
	role in cytoplasmic NADPH production. Alternatively spliced transcript variants encoding the
	same protein have been found for this gene.
Molecular Weight:	46.5 kDa
NCBI Accession:	NP_005887
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
	Protein-protein interaction
	In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

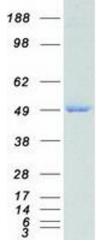
Concentration:	> 50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Images



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot