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# Isocitrate Dehydrogenase Protein (IDH) (DYKDDDDK Tag)





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WT/R132H heterodimers are inactive.

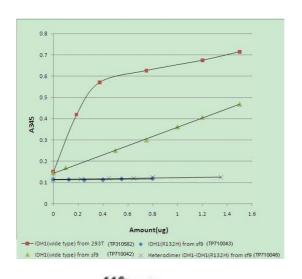
## Target Details

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:	47 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.	

### Handling

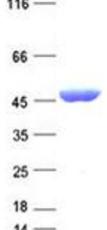
Concentration:	> 50 μg/mL
Buffer:	50 mM Tris-HCl pH 8.0, 150 mM NaCl, 10 % glycerol. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot 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