

CAB13245

Product Information

Product SKU:	CAB13245	Gene ID:	3417		Size:	20uL, 100uL			
Clone No:	-	Host Species:	Rabbit		Reactivity :	Human, Mouse, Rat			
Additional Information									
Observed MW:	46kDa		Conjugate:	Unconjugate	d				
Calculated MW	: 47kDa		lsotype:	lgG					

Immunogen Information

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.
Recommended Dilution:	WB,1:500 - 1:1000 IF/ICC,1:50 - 1:200 IP,0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
Synonyms:	IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26; H1
Purifcation Method:	Affinity purification
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-414 of human IDH1
	(NP_005887.2).
Storage:	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.