

Recombinant

DGRmAb®

IDH1 (DGR15229) Rabbit mAb

db11338

Package : 10µL 20µL 50µL 100µL

Product Name : IDH1 (DGR15229) Rabbit mAb**Cat.No.:** db11338**Synonyms :** IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26**Application :** WB, IHC-P, FC, IP**Reactivity :** Human,Mouse,Rat**Host species :** Rabbit**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. [provided by RefSeq, Sep 2013]

Immunogen

A synthetic peptide of human IDH1

Gene ID

3417, 15926, 24479

Swiss Prot

O75874, O88844, P41562

Synonyms

IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26

Reactivity

Human,Mouse,Rat

Application

WB, IHC-P, FC, IP

Recommended dilution

WB: 1:1000

IHC-P: 1:200-1:1000

FC: 1:20-1:50

IP: 1:20-1:50

Calculated MW	47 kDa
Observed MW	47 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR15229
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.