

## Product datasheet for **TA319663**

### Isocitrate dehydrogenase (IDH1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1 - 2 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	IDH1 antibody was raised against a 13 amino acid synthetic peptide near the carboxy terminus of human IDH1.
Formulation:	IDH1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	IDH1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	isocitrate dehydrogenase (NADP(+)) 1, cytosolic
Database Link:	<a href="#">NP_005887</a> <a href="#">Entrez Gene 15926 Mouse</a> <a href="#">Entrez Gene 24479 Rat</a> <a href="#">Entrez Gene 3417 Human</a> <a href="#">O75874</a>



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**Background:**

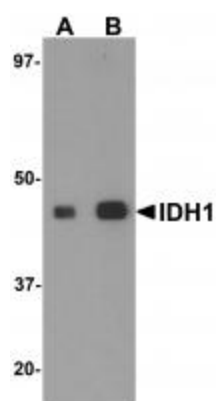
IDH1 Antibody: Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Two NADP(+)-dependent isocitrate dehydrogenases have been found as homodimer: IDH1 is predominantly cytosolic and peroxisomal and IDH2 is mitochondrial. The presence of IDH1 in peroxisomes suggests it may play a role 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 IDH1 serves a significant role in cytoplasmic NADPH production. Defects in IDH1 are involved in the development of glioma.

**Synonyms:**

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

**Protein Pathways:**

Citrate cycle (TCA cycle), Glutathione metabolism, Metabolic pathways

**Product images:**

Western blot analysis of IDH1 in HepG2 cell lysate with IDH1 antibody at (A) 1 and (B) 2 ug/mL.