

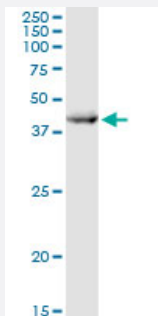
MaxPab®

IDH1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00003417-D01P

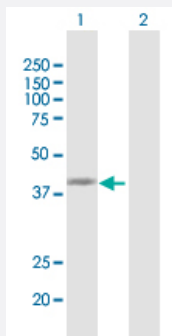
Size 100 ug

Applications



Western Blot (Tissue lysate)

IDH1 MaxPab rabbit polyclonal antibody. Western Blot analysis of IDH1 expression in human kidney.



Western Blot (Transfected lysate)

Western Blot analysis of IDH1 expression in transfected 293T cell line ([H00003417-T02](#)) by IDH1 MaxPab polyclonal antibody.

Lane 1: IDH1 transfected lysate(46.70 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human IDH1 protein.

Immunogen

IDH1 (NP_005887.2, 1 a.a. ~ 414 a.a) full-length human protein.

Sequence

MSKKISGGSVVEMQGDDEMTRIWEELIKEKLIFPYVELDLHSYDLGIENRDATNDQVTKDAAEAIAKKH
NVGVKCATITPDEKRVEEFKLKQMWKSPNGTIRNLLGGTVFREAIICKNIPRLVSGWVKPIIGRHAYG
DQYRATDFVVPGPVKVEITYTPSDGTQKVITYLVHNFEELGGVAMGMYNQDKSIEDFAHSSFQMA
LSKGWPLYLSTKNTILKKYDGRFKDIFQEYDKQYKSQFEAQKIWEHRLIDDMVAQAMKSEGGFM
ACKNYDGDVQSDSVAQGYGSLGMMTSVLVCPDGKTVEAAAHGTVTRHYRMYQKGQETSTNPI
ASIFAWTRGLAHRKLDNNKELAFFANALEEVSITETIEAGFMTKDLAACIKGLPNVQRSDYLNTFEF
MDKLGENLKIQLAQAKL

Host	Rabbit
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

IDH1 MaxPab rabbit polyclonal antibody. Western Blot analysis of IDH1 expression in human kidney.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of IDH1 expression in transfected 293T cell line ([H00003417-T02](#)) by IDH1 MaxPab polyclonal antibody.

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — IDH1

Entrez GeneID	3417
GeneBank Accession#	NM_005896.2
Protein Accession#	NP_005887.2
Gene Name	IDH1
Gene Alias	IDCD, IDH, IDP, IDPC, PICD
Gene Description	isocitrate dehydrogenase 1 (NADP+), soluble
Omim ID	147700
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

NADP+-specific ICDH|NADP-dependent isocitrate dehydrogenase, cytosolic|NADP-dependent isocitrate dehydrogenase, peroxisomal|oxalosuccinate decarboxylase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)

Disease

- [Adenoma](#)
- [Astrocytoma](#)

- [Blast Crisis](#)
- [Brain Neoplasms](#)
- [Carcinoma](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [HIV Infections](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Melanoma](#)
- [Monosomy](#)
- [Myelodysplastic Syndromes](#)
- [Myeloproliferative Disorders](#)
- [Neoplasm Metastasis](#)
- [Nervous System Neoplasms](#)
- [Neuroectodermal Tumors](#)
- [Oligodendroglioma](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Polycythemia Vera](#)

- [Primary Myelofibrosis](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Supratentorial Neoplasms](#)
- [Thrombocythemia](#)
- [Thyroid Neoplasms](#)