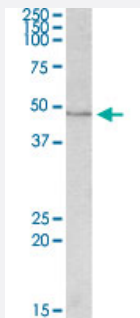


IDH1 polyclonal antibody

Catalog # PAB18969 Size 100 ug

Applications



Western Blot (Cell lysate)

IDH1 polyclonal antibody (Cat # PAB18969, 0.3 ug/mL) staining of HepG2 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of IDH1.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human IDH1.
Sequence	C-EITYTPSDGTQK
Host	Goat
Theoretical MW (kDa)	48
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:1000) Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 0.5 mg/mL in Tris saline, pH7.3 (0.5% BSA, 0.02% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

IDH1 polyclonal antibody (Cat # PAB18969, 0.3 ug/mL) staining of HepG2 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — IDH1

Entrez GeneID[3417](#)**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](#)