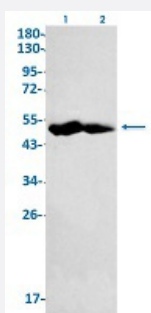


RecomAb™

IDH2 recombinant monoclonal antibody, clone R04-1B0

Catalog # RAB02188 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: Jurkat and Lane 2: rat brain lysates with IDH2 recombinant monoclonal antibody, clone R04-1B0 (Cat # RAB02188).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human IDH2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human IDH2.
Theoretical MW (kDa)	Calculated MW: 51 kD
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

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

Western Blot analysis of Lane 1: Jurkat and Lane 2: rat brain lysates with IDH2 recombinant monoclonal antibody, clone R04-1B0 (Cat # RAB02188).

Gene Info — IDH2

Entrez GeneID[3418](#)**Protein Accession#**[P48735](#)**Gene Name**

IDH2

Gene Alias

ICD-M, IDH, IDHM, IDP, IDPM, mNADP-IDH

Gene Description

isocitrate dehydrogenase 2 (NADP+), mitochondrial

Omim ID[147650](#)**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 mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. [provided by RefSeq]

Other Designations

NADP+-specific ICDH|isocitrate dehydrogenase, mitochondrial|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

- [Astrocytoma](#)
- [Blast Crisis](#)
- [Brain Neoplasms](#)
- [Chronic Disease](#)
- [Disease Progression](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Melanoma](#)
- [Myelodysplastic Syndromes](#)
- [Myeloproliferative Disorders](#)
- [Neoplasm Metastasis](#)

- [Oligodendroglioma](#)
- [Polycythemia Vera](#)
- [Primary Myelofibrosis](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Thrombocythemia](#)