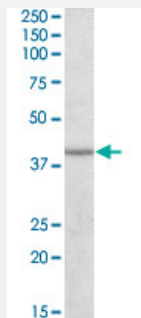


IDH3B polyclonal antibody

Catalog # PAB19676 Size 100 ug

Applications



Western Blot (Tissue lysate)

IDH3B polyclonal antibody (Cat # PAB19676) (0.3 ug/mL) staining of human skeletal muscle 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 IDH3B.
Immunogen	A synthetic peptide corresponding to amino acids 33-46 near N-terminus of human IDH3B.
Sequence	C-HAASRSQAEDVRVE
Host	Goat
Theoretical MW (kDa)	41.9
Reactivity	Human, Mouse, Rat
Specificity	This antibody is expected to recognize isoform a (NP_008830.2) and isoform b (NP_777280.1).
Form	Liquid
Purification	Antigen affinity purification
Recommend Usage	Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (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 (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — IDH3B

Entrez GeneID[3420](#)**Protein Accession#**[NP_008830.2;NP_777280.1](#)**Gene Name**

IDH3B

Gene Alias

FLJ11043, H-IDHB, MGC903

Gene Description

isocitrate dehydrogenase 3 (NAD+) beta

Omim ID[604526](#)**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. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the beta subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. Three alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq]

Other Designations

NAD+-specific ICDH|NAD+-specific isocitrate dehydrogenase b subunit|NAD+-specific isocitrate dehydrogenase beta|OTTHUMP00000030023|OTTHUMP00000030024|isocitrate dehydrogenase 3, beta subunit|isocitrate dehydrogenase, NAD(+)-specific, mitochondrial, beta s

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 plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)