

Product datasheet for **TA348971**

IDH3B Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.3-1 ug/ml
Reactivity:	Human, Mouse, Rat, Pig (Expected from sequence similarity: Dog)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-IDH3B (aa33-46) Antibody: Peptide with sequence C-HAASRSQAEDVRVE, from the internal region (near N Terminus) of the protein sequence according to NP_008830.2; NP_777280.1.
Formulation:	Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	isocitrate dehydrogenase 3 (NAD(+)) beta
Database Link:	NP_001245313 Entrez Gene 94173 RatEntrez Gene 170718 MouseEntrez Gene 477177 DogEntrez Gene 3420 Human O43837



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Background:

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, Jul 2008]

Synonyms:

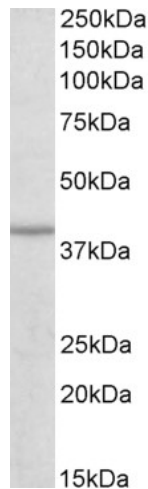
RP46

Note:

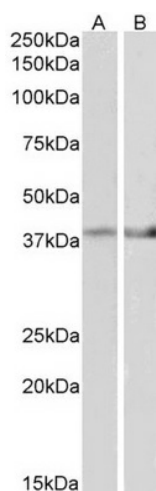
This antibody is expected to recognize isoform a (NP_008830.2) and isoform b (NP_777280.1).

Protein Pathways:

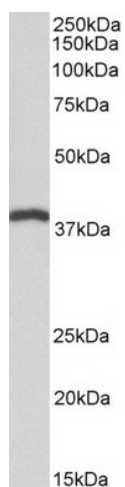
Citrate cycle (TCA cycle), Metabolic pathways

Product images:

TA348971 (0.3 ug/ml) staining of Human Skeletal muscle lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA348971 (2 ug/ml) staining of Mouse Heart (A) and Mouse Muscle (B) lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA348971 (0.1 ug/ml) staining of Pig Heart lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.