

Product datasheet for **TA348974**

IDH3A Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.1-0.3 ug/ml
Reactivity:	Human, Mouse, Rat, Pig (Expected from sequence similarity: Dog, Cow)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-IDH3A Antibody: Peptide with sequence DFTEEICRRVKDLD, from the C Terminus of the protein sequence according to NP_005521.1.
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(+)) alpha
Database Link:	NP_005521 Entrez Gene 67834 Mouse Entrez Gene 114096 Rat Entrez Gene 479066 Dog Entrez Gene 3419 Human P50213



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Background:

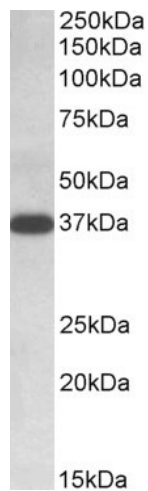
Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate 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 alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. [provided by RefSeq, Jul 2008]

Synonyms:

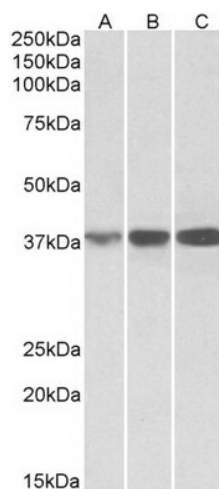
H-IDH alpha; isocitrate dehydrogenase (NAD+) alpha chain; isocitrate dehydrogenase 3 (NAD+) a; isocitrate dehydrogenase [NAD] subunit alpha; isocitric dehydrogenase; mitochondrial; NAD(H)-specific isocitrate dehydrogenase alpha subunit; NAD+-specific ICDH

Protein Pathways:

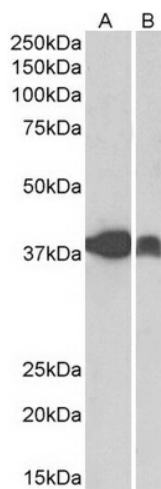
Citrate cycle (TCA cycle), Metabolic pathways

Product images:

TA348974 (0.1 ug/ml) staining of Human Lymph Nodes lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA348974 (0.1 ug/ml) staining of Human (A), Mouse (B) and Rat (C) Spleen lysates (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA348974 (0.3 ug/ml) staining of Pig Spleen (A) and Pig Skeletal Muscle (B) lysates (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.