

## Product datasheet for **TA500912**

### IDH3A Mouse Monoclonal Antibody [Clone ID: OTI2E9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2E9
Applications:	FC, IF
Recommended Dilution:	IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human IDH3A (NP_005521) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.6 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39.6 kDa
Gene Name:	isocitrate dehydrogenase (NAD(+)) 3 catalytic subunit alpha
Database Link:	<a href="#">NP_005521</a> <a href="#">Entrez Gene 67834 Mouse</a> <a href="#">Entrez Gene 114096 Rat</a> <a href="#">Entrez Gene 3419 Human</a> <a href="#">P50213</a>



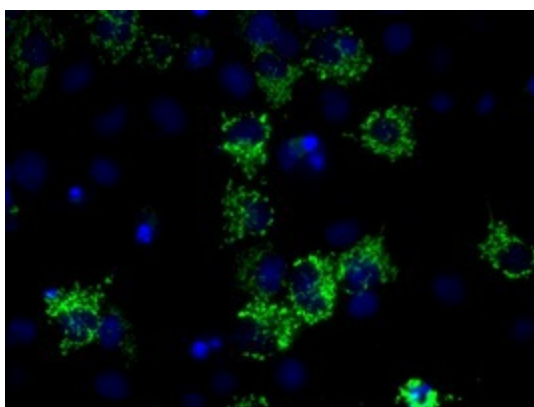
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**Background:** Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate 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.

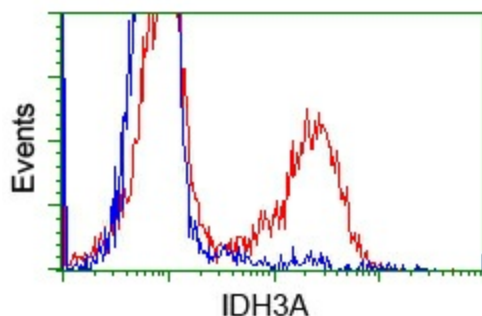
**Synonyms:** H-IDH alpha; isocitrate dehydrogenase (NAD+) alpha chain; isocitrate dehydrogenase 3 (NAD+) a; isocitrate dehydrogenase [NAD] subunit alpha; isocitric dehydrogenase; mitochondrial; NAD(H)-specific isocitrate dehydrogenase alpha subunit; NAD+-specific ICDH

**Protein Pathways:** Citrate cycle (TCA cycle), Metabolic pathways

### Product images:



Anti-IDH3A mouse monoclonal antibody (TA500912) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY IDH3A ([RC200313]).



HEK293T cells transfected with either pCMV6-ENTRY IDH3A ([RC200313]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-IDH3A mouse monoclonal (TA500912), and then analyzed by flow cytometry.