

Product datasheet for **TA592470**

IDH2 Rabbit Monoclonal Antibody [Clone ID: OTIR5H7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTIR5H7
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within DDK. The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Predicted Protein Size:	50.9 kDa
Gene Name:	isocitrate dehydrogenase (NADP(+)) 2
Database Link:	Entrez Gene 3418 Human P48735



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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. 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

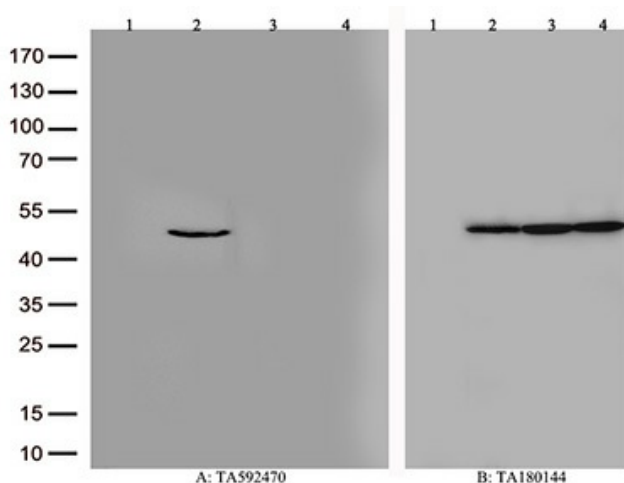
Product images:

Figure A, Western blot analysis of lysates from HEK293T cells transfected with IDH2 R140Q mutant overexpression plasmid(Lane 2), IDH2 172S mutant overexpression plasmid(Lane 3) and IDH2 wild-type overexpression plasmid ([RC201152], Lane 4) or empty vector plasmid ([PS100001], Lane 1) using anti-IDH2 R140Q antibody, TA592470(1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000).