

Product datasheet for **TA349541**

IDH3B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: HepG2 cells and mouse kidney tissue, lovo cells and mouse eyes tissue, hela cells IHC: 25-100 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human IDH3B
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42 kDa
Gene Name:	isocitrate dehydrogenase 3 (NAD(+)) beta
Database Link:	NP_777280 Entrez Gene 94173 Rat Entrez Gene 170718 Mouse Entrez Gene 3420 Human O43837



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Background:

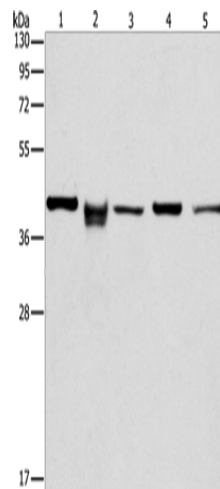
Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate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

Synonyms:

RP46

Protein Pathways:

Citrate cycle (TCA cycle), Metabolic pathways

Product images:

Gel: 10%SDS-PAGE

Lysate: 40 µg

Lane 1-5: HepG2 cells

mouse kidney tissue

lovo cells

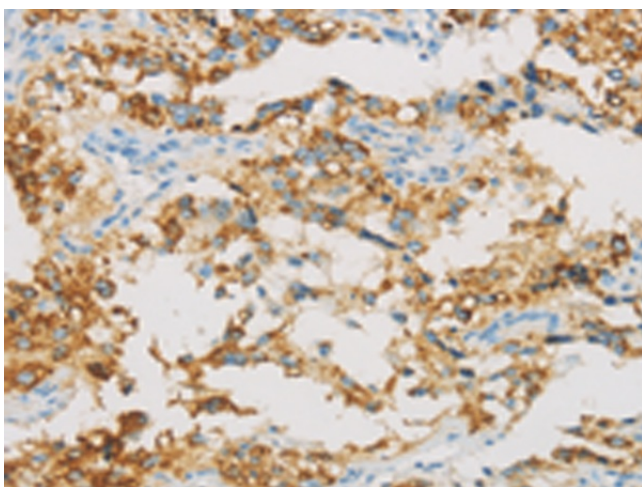
mouse eyes tissue

hela cells

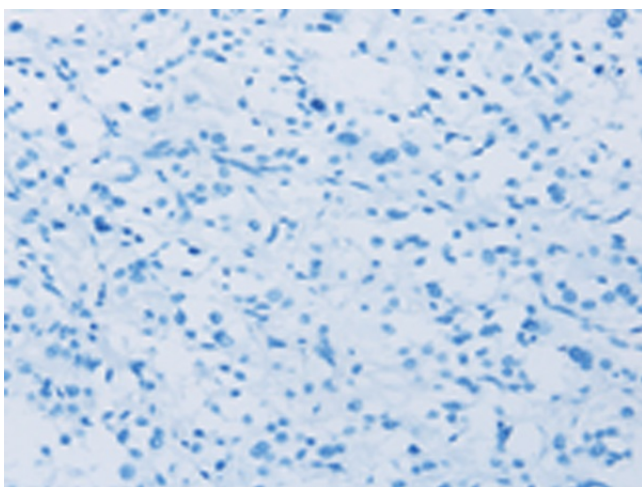
Primary antibody: TA349541 (IDH3B Antibody) at dilution 1/233.3

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 20 seconds



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA349541 (IDH3B Antibody) at dilution 1/30 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA349541 (IDH3B Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: $\times 200$)