

Product datasheet for **TA349542S**

IDH3G Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse brain tissue and NIH/3T3 cells IHC: 25-100 Positive control: Human brain Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human IDH3G
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
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:	43 kDa
Gene Name:	isocitrate dehydrogenase 3 (NAD(+)) gamma
Database Link:	NP_777358 Entrez Gene 15929 MouseEntrez Gene 25179 RatEntrez Gene 3421 Human P51553



[View online »](#)

Background:

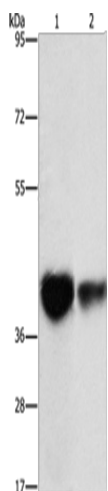
Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate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

Synonyms:

H-IDHG

Protein Pathways:

Citrate cycle (TCA cycle), Metabolic pathways

Product images:

Gel: 10%SDS-PAGE

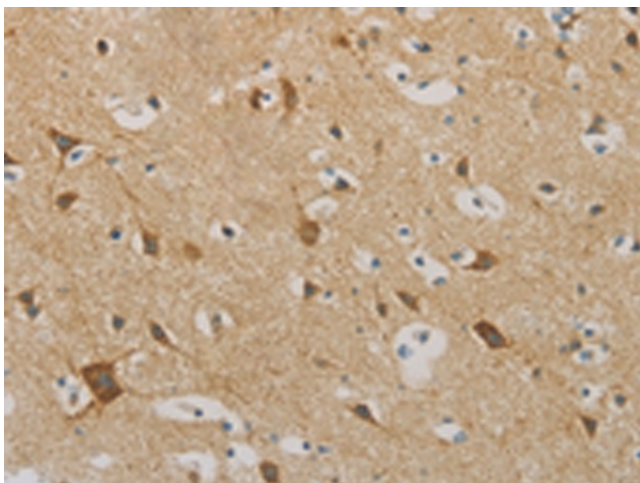
Lysate: 40 µg

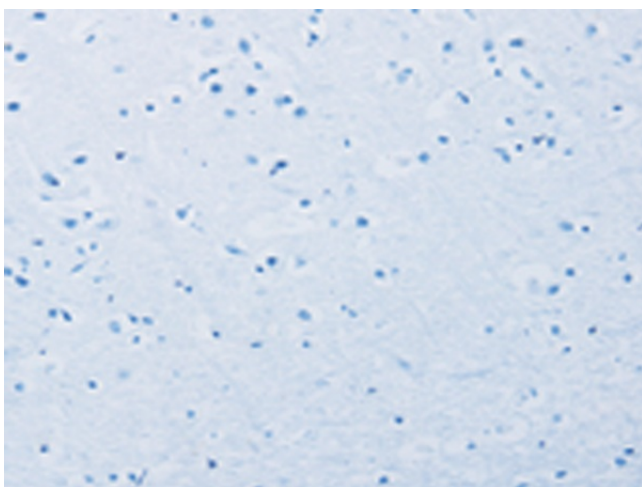
Lane 1-2: Mouse brain tissue

NIH/3T3 cells

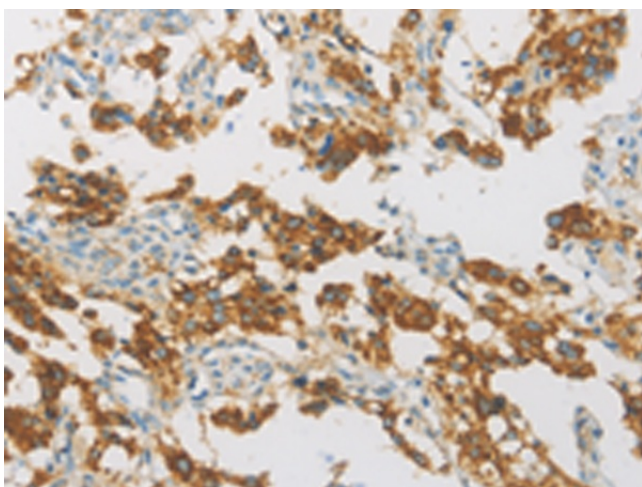
Primary antibody: [TA349542] (IDH3G Antibody)
at dilution 1/350Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution

Exposure time: 15 seconds

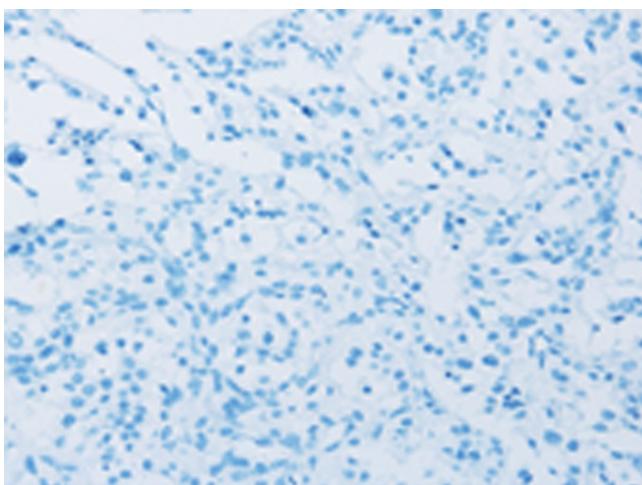
Immunohistochemistry of paraffin-embedded
Human brain tissue using [TA349542] (IDH3G
Antibody) at dilution 1/30 (Original magnification:
×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA349542] (IDH3G Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA349542] (IDH3G Antibody) at dilution 1/30 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA349542] (IDH3G Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: $\times 200$)