

Anti-IDH3G antibody

Cat. No.	ml221734
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol

Product overview

Description	Anti-IDH3G rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human IDH3G
Reactivity	Human, Mouse, Rat
Content	0.3 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	IDH3G
Full name	isocitrate dehydrogenase 3 (NAD ⁺) gamma

Synonyms H-IDHG

Swissprot P51553

Target 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.

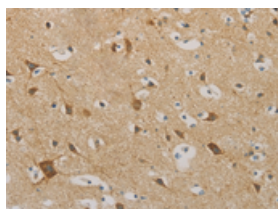
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human brain

Recommended dilution: 25-100

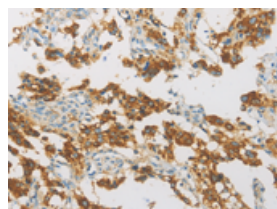


The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using ml221734(IDH3G Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml221734(IDH3G Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: $\times 200$)

Western blotting

Predicted band size: 43 kDa

Positive control: Mouse brain tissue and NIH/3T3 cells

Recommended dilution: 500-2000

Gel: 10%SDS-PAGE

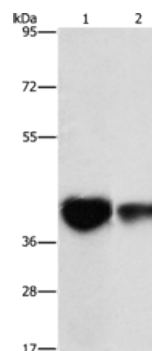
Lysate: 40 μ g

Lane 1-2: Mouse brain tissue, NIH/3T3 cells

Primary antibody: ml221734(IDH3G Antibody) at dilution 1/350

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

Exposure time: 15 seconds



ELISA

Recommended dilution: 2000-5000

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