

# Product datasheet

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ARG42154 anti-IDH3A antibody

Package: 50 μl Store at: -20°C

## Summary

Product Description Rabbit Polyclonal antibody recognizes IDH3A

Tested Reactivity Hu, Ms

Predict Reactivity Cow, Rat, Dog, Gpig, Hrs, Rb, Zfsh

Tested Application ICC/IF, IHC-P, IP, WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name IDH3A
Species Human

Immunogen Synthetic peptide around the N-terminal region of Human IDH3A. (within the following region: MKIFD

AAKAP IQWEE RNVTA IQGPG GKWMI PSEAK ESMDK NKMGL KGPLK)

Conjugation Un-conjugated

Alternate Names Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial; EC 1.1.1.41; NAD; Isocitric

dehydrogenase subunit alpha; +

# **Application Instructions**

Predict Reactivity Note Predicted Homology Based on Immunogen Sequence: Cow: 100%; Dog: 100%; Guinea pig: 100%; Horse:

100%; Rabbit: 100%; Rat: 100%; Zebrafish: 92%

Application table Application Dilution

ICC/IF Assay-dependent 
IHC-P  $4 - 8 \mu g/ml$  
IP 1:200 
WB  $1 \mu g/ml$ 

Application Note \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Positive Control HepG2

Observed Size ~ 38 - 40 kDa

# **Properties**

Form Liquid

Purification Purification with Protein A.

Buffer PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.

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Preservative 0.09% (w/v) Sodium azide

Stabilizer 2% Sucrose

Concentration Batch dependent: 0.5 - 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol IDH3A

Gene Full Name isocitrate dehydrogenase 3 (NAD+) alpha

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. [provided by RefSeq, Jul 2008]

Function Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-

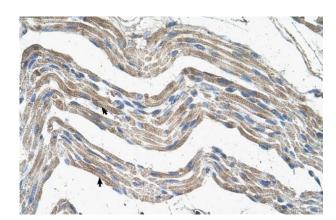
ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and

one of IDH3G) requires the assembly and cooperative function of both heterodimers. [UniProt]

Calculated Mw 40 kDa

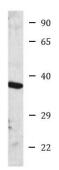
Cellular Localization Mitochondrion. [UniProt]

### **Images**



### ARG42154 anti-IDH3A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue stained with ARG42154 anti-IDH3A antibody at 4 - 8  $\mu$ g/ml dilution.



# HepG2

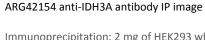
IDH3A antibody

- 65

- 29

# ARG42154 anti-IDH3A antibody WB image

Western blot: HepG2 cell lysate stained with ARG42154 anti-IDH3A antibody at 1  $\mu g/ml$  dilution.



Immunoprecipitation: 2 mg of HEK293 whole cell lysate were immunoprecipitated (1:200) and stained with ARG42154 anti-IDH3A antibody at 1:1000 dilution.

# 7837 Human liver tumor (Negative control) - 40 - 40 - 29

- 22

# ARG42154 anti-IDH3A antibody WB image

Western blot: 25  $\mu g$  of 293T and Human liver tumor (Negative control) lysates stained with ARG42154 anti-IDH3A antibody at 5  $\mu g/ml$  dilution.