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IDH2 Rabbit pAb

Catalog No.: A7190 3 Publications

Basic Information

Observed MW
43kDa

Calculated MW
51kDa

Category
Primary antibody

Applications
WB,IHC-P,IF/ICC,IP,ELISA,ChIP

Cross-Reactivity
Human, Mouse, Rat

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.

Recommended Dilutions

WB	1:500 - 1:5000
IHC-P	1:50 - 1:200
IF/ICC	1:20 - 1:50
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
ChIP	5μg antibody for 10μg-15μg of Chromatin

Immunogen Information

Gene ID
3418

Swiss Prot
P48735

Immunogen
This information is considered to be commercially sensitive.

Synonyms
IDH; IDP; IDHM; IDPM; ICD-M; IDH-2; D2HGA2; mNADP-IDH; IDH2

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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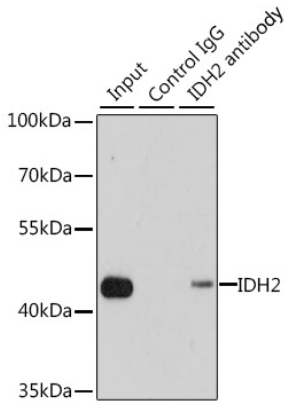
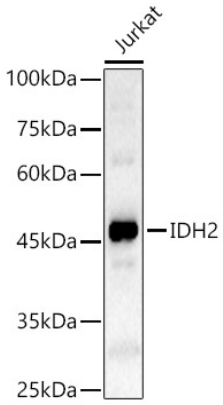
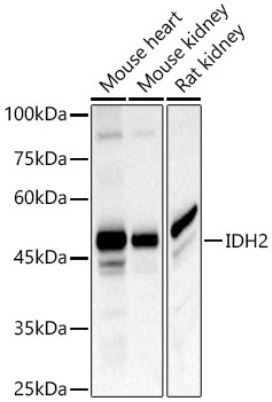
Validation Data



Immunoprecipitation analysis of 200 µg extracts of MCF7 cells using 1 µg IDH2 antibody (A7190). Western blot was performed from the immunoprecipitate using IDH2 antibody (A7190) at a dilution of 1:1000.

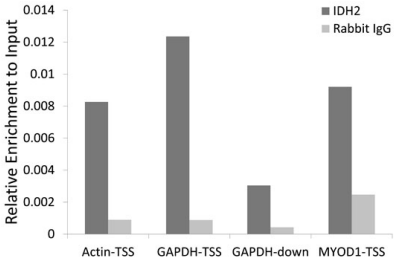


Western blot analysis of lysates from Jurkat cells, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

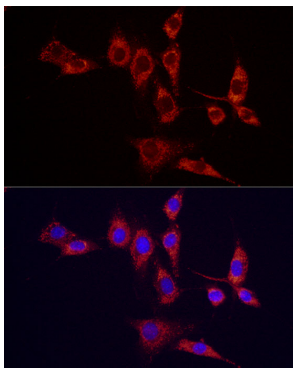


Western blot analysis of various lysates, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

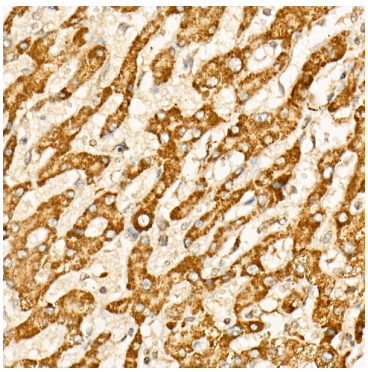
Validation Data



Chromatin immunoprecipitation of extracts of 293T cell line, using IDH2 antibody (A7190) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Immunofluorescence analysis of NIH/3T3 cells using IDH2 Rabbit pAb (A7190) at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer using IDH2 Rabbit pAb (A7190) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.