

IDH2 Rabbit pAb

Catalog No.: A7190

3 Publications

Basic Information

Observed MW

43kDa

Calculated MW

51kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC, IP, 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 - 1:1000**IHC-P** 1:50 - 1:200**IF/ICC** 1:20 - 1:50**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**ChIP** 5µg antibody for
10µg-15µg of Chromatin

Immunogen Information

Gene ID

3418

Swiss Prot

P48735

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 193-452 of human IDH2 (NP_002159.2).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

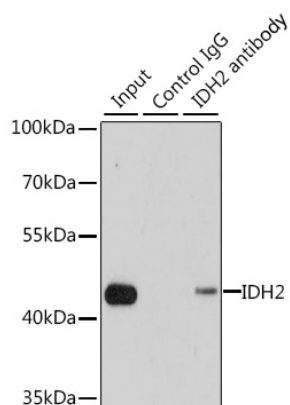
Affinity purification

Storage

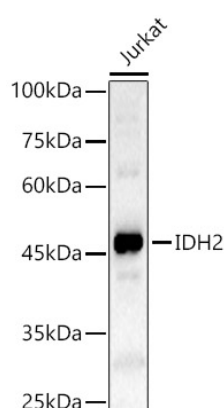
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

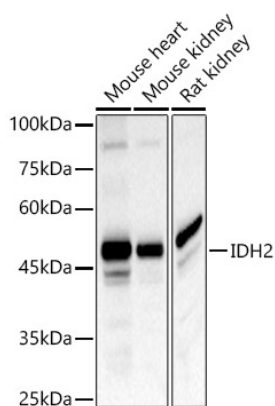
Validation Data



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.

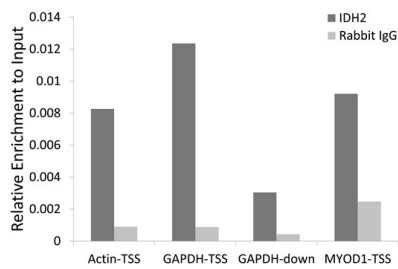


Western blot analysis of lysates from Jurkat cells, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure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

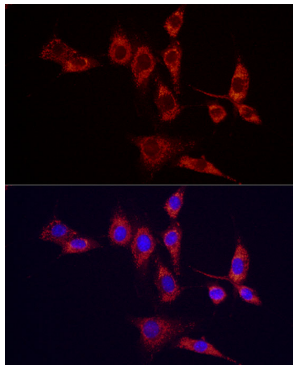


Western blot analysis of various lysates, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

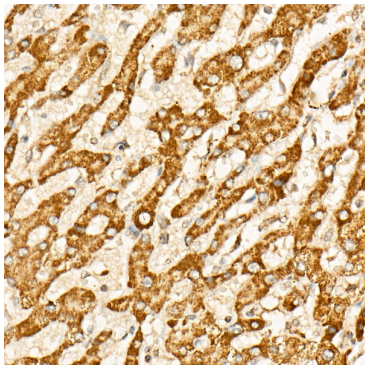
Validation Data



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 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). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.