

## Product datasheet for **TA377321**

### IDH2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ICC/IF, IHC, IP, WB
Recommended Dilution:	WB,1:500 - 1:2000 IF,1:20 - 1:50 IP,1:50 - 1:200 ChIP,1:20 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Unmodified
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 193-452 of human IDH2 (NP_002159.2).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	45kDa/50kDa
Gene Name:	isocitrate dehydrogenase (NADP(+)) 2, mitochondrial
Database Link:	<a href="#">Entrez Gene 3418 Human P48735</a>



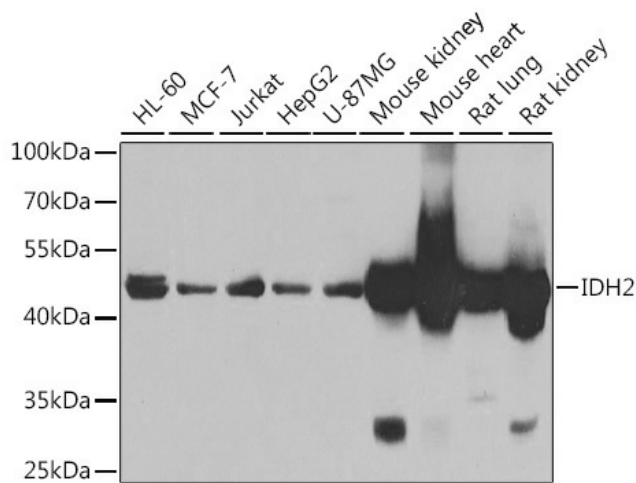
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**Background:**

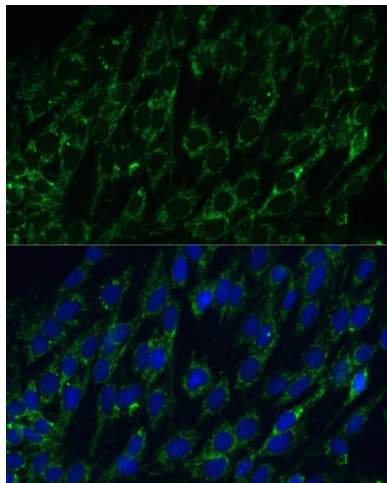
Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate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

**Synonyms:**

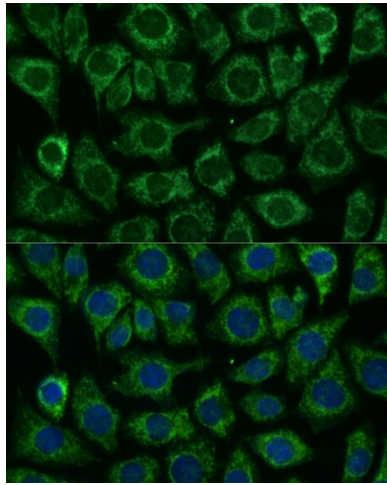
ICD-M; IDH; IDHM; IDP; IDPM; mNADP-IDH

**Product images:**


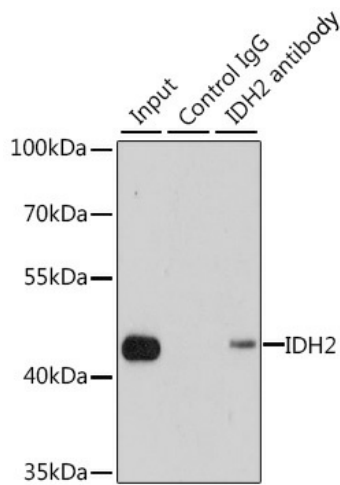
Western blot analysis of extracts of various cell lines, using IDH2 antibody (TA377321) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 90s.



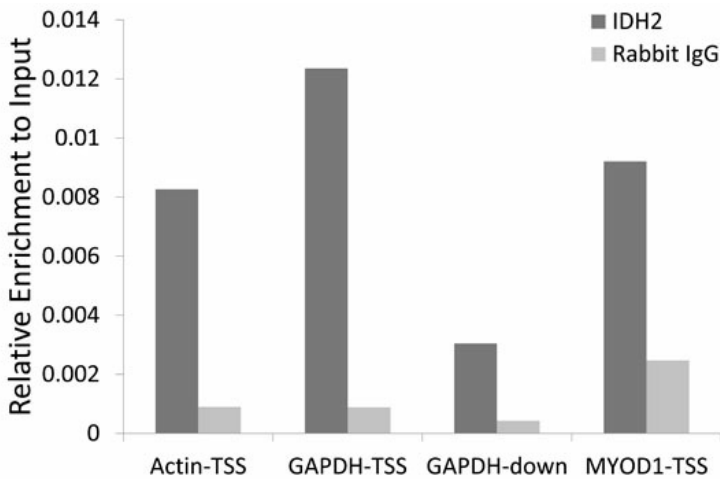
Immunofluorescence analysis of C6 cells using IDH2 antibody (TA377321) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using IDH2 antibody (TA377321) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of MCF7 cells using 1ug IDH2 antibody (TA377321). Western blot was performed from the immunoprecipitate using IDH2 antibody (TA377321) at a dilution of 1:1000.



Chromatin immunoprecipitation of extracts of 293T cell line, using IDH2 antibody (TA377321) 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.