

IDH2 Polyclonal antibody

Catalog Number: 23254-1-AP

2 Publications

Basic Information

Catalog Number:

23254-1-AP

Size:

850 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19748

GenBank Accession Number:

BC009244

GeneID (NCBI):

3418

UNIPROT ID:

P48735

Full Name:

isocitrate dehydrogenase 2 (NADP+), mitochondrial

Calculated MW:

452 aa, 51 kDa

Observed MW:

41-47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:20-1:200

IF/ICC 1:20-1:200

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, mouse kidney tissue, mouse liver tissue, rat kidney tissue, rat liver tissue, DU 145 cells, Jurkat cells, mouse brain tissue

IHC: human heart tissue,

IF/ICC: HepG2 cells,

Background Information

IDH2, also named as IDP and ICD-M, belongs to the isocitrate and isopropylmalate dehydrogenases family. It plays a role in intermediary metabolism and energy production. IDH2 is a mitochondrial NADP-dependent isocitrate dehydrogenase that catalyzes oxidative decarboxylation of isocitrate to alpha-ketoglutarate, producing NADPH. It may tightly associate or interact with the pyruvate dehydrogenase complex. IDH1 and IDH2 mutations could also contribute to tumorigenesis and cancer progression through increased mutagenesis. IDH2 has 2 isoforms with the MW of 51 kDa and 45 kDa, and the mature form is about 47 kDa and 41 kDa with the N-terminal transit peptide cleaved. This antibody is specific to IDH2.

Notable Publications

Author	Pubmed ID	Journal	Application
Shubhi Srivastava	37468519	Nat Commun	WB, IF
Pamela Sara E Head	35613279	Sci Transl Med	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

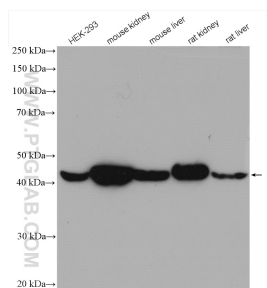
For technical support and original validation data for this product please contact:

T: 4006900926

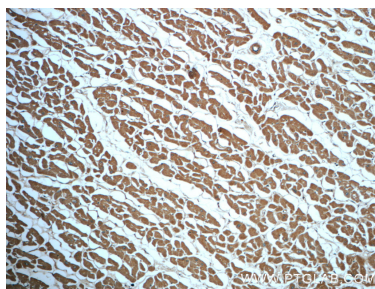
E: Proteintech-CN@ptglab.comW: ptgcn.com

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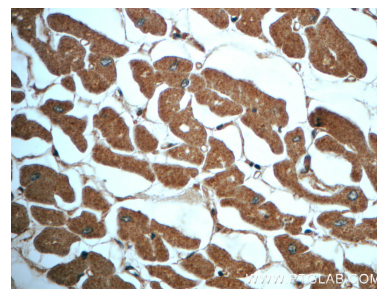
Selected Validation Data



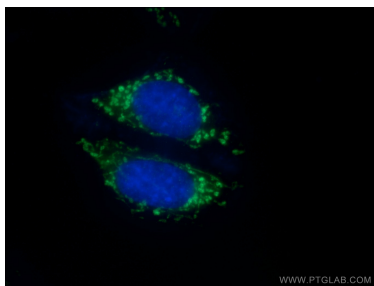
Various lysates were subjected to SDS PAGE followed by western blot with 23254-1-AP (IDH2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart slide using 23254-1-AP (IDH2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human heart slide using 23254-1-AP (IDH2 Antibody) at dilution of 1:50.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 23254-1-AP (IDH2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).