

For Research Use Only

# IDH2 Recombinant antibody

Catalog Number: 82117-1-RR

Featured Product



## Basic Information

Catalog Number:

82117-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8779

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:

43 kDa

Purification Method:

Protein A purification

CloneNo.:

1B1

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Species Specificity:

human, mouse, rat

**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 : LNCaP cells, HEK-293 cells, mouse heart tissue, Jurkat cells, rat heart tissue

IP : mouse brain tissue,

IHC : human colon cancer tissue,

## 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.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

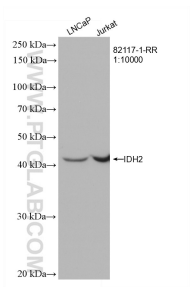
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

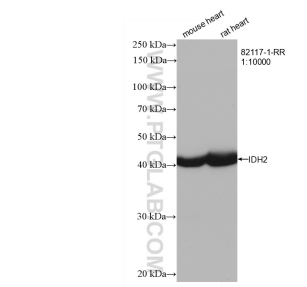
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

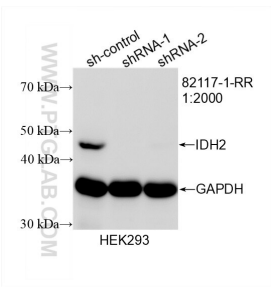
Selected Validation Data



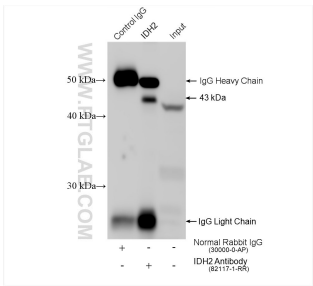
Various lysates were subjected to SDS PAGE followed by western blot with 82117-1-RR (IDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



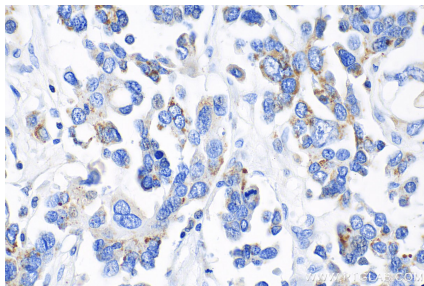
Various lysates were subjected to SDS PAGE followed by western blot with 82117-1-RR (IDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of IDH2 antibody (82117-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IDH2 transfected HEK-293 cells.



IP result of anti-IDH2 (IP:82117-1-RR, 4ug; Detection:82117-1-RR 1:1000) with mouse brain tissue lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 82117-1-RR (IDH2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).