

For Research Use Only

# IDH2 Recombinant antibody, PBS Only

Catalog Number: 82117-1-PBS

Featured Product



## Basic Information

Catalog Number:

82117-1-PBS

Size:

100ug, Concentration: 1mg/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

## Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

## 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 -80°C.

Storage Buffer:

PBS Only

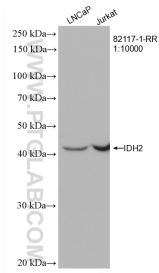
For technical support and original validation data for this product please contact:

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

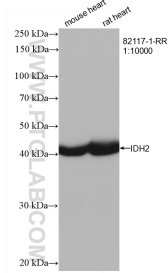
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

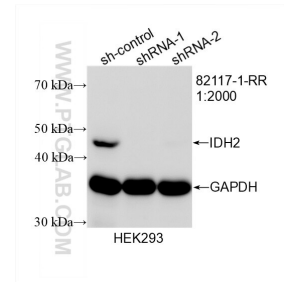
## Selected Validation Data



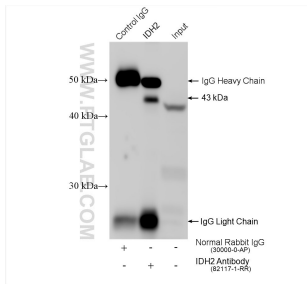
Various lysates were subjected to SDS PAGE followed by western blot with 82117-1-RR (IDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82117-1-PBS in a different storage buffer formulation.



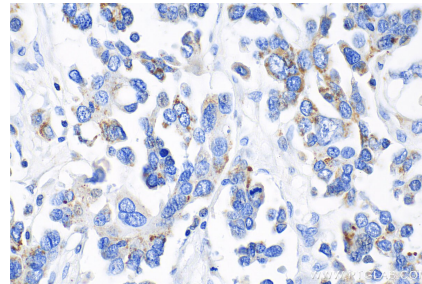
Various lysates were subjected to SDS PAGE followed by western blot with 82117-1-RR (IDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82117-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 82117-1-PBS in a different storage buffer formulation.



IP result of anti-IDH2 (IP:82117-1-RR, 4ug; Detection:82117-1-RR 1:1000) with mouse brain tissue lysate 1280 ug. This data was developed using the same antibody clone with 82117-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82117-1-PBS in a different storage buffer formulation.