

For Research Use Only

# IDH2 Recombinant antibody

Catalog Number: 82117-1-RR



## Basic Information

**Catalog Number:**

82117-1-RR

**Size:**

1000 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

## Applications

**Tested Applications:**

IHC, IP, WB, 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, 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

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

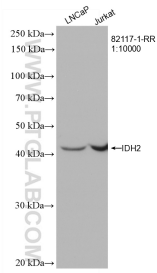
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

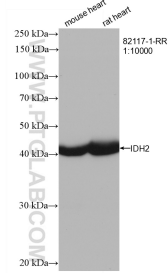
W: [ptgcn.com](http://ptgcn.com)

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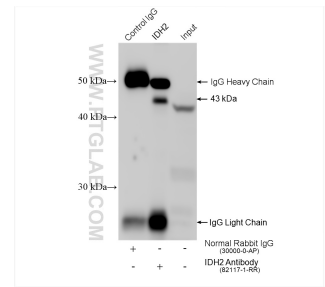
## Selected Validation Data



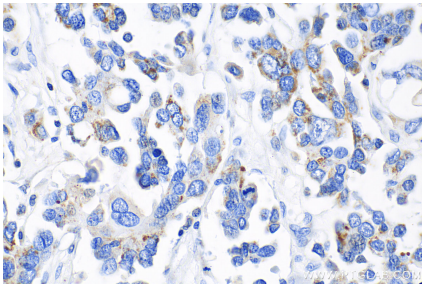
Various lysates were subjected to SDS PAGE followed by western blot with 82117-1-RR (IDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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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).