

For Research Use Only

# IDH2 Polyclonal antibody

Catalog Number:15932-1-AP

Featured Product

53 Publications



## Basic Information

**Catalog Number:**

15932-1-AP

**Concentration:**

300 ug/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:**

41-47 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB: 1:500-1:3000

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

IHC: 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, pig, chicken

**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, Jurkat cells, HeLa cells, mouse heart tissue, mouse skeletal muscle tissue, mouse liver tissue, rat liver tissue, NIH/3T3 cells, SH-SY5Y cells, mouse brain tissue, HepG2 cells, K-562 cells

**IP:** mouse brain tissue,

**IHC:** human colon cancer tissue, mouse kidney 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
He Wen	25251602	J Neurochem	WB,IF
Lifang Li	36230229	Animals (Basel)	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

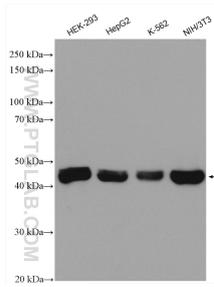
T: 4006900926

E: Proteintech-CN@ptglab.com

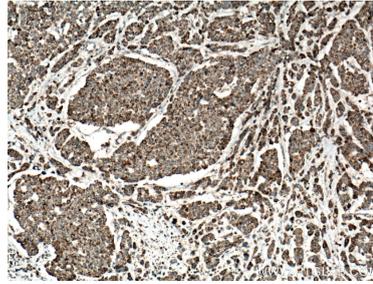
W: ptgcn.com

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

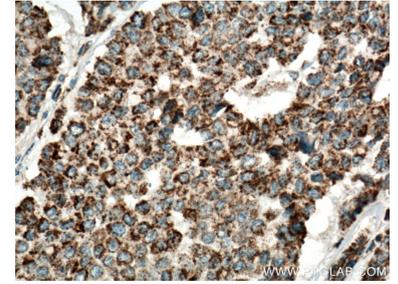
## Selected Validation Data



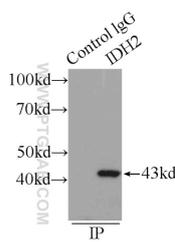
Various lysates were subjected to SDS PAGE followed by western blot with 15932-1-AP (IDH2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



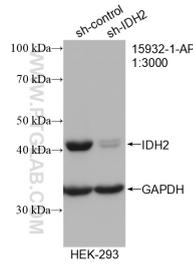
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15932-1-AP (IDH2 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15932-1-AP (IDH2 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-IDH2 (IP:15932-1-AP; 3ug; Detection:15932-1-AP 1:1000) with mouse brain tissue lysate 6000ug.



WB result of IDH2 antibody (15932-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IDH2 transfected HEK-293 cells.