

For Research Use Only

IDH2 Polyclonal antibody

Catalog Number: 15932-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

15932-1-AP

Size:

150UL, Concentration: 200 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8779

GenBank Accession Number:

BC009244

GeneID (NCBI):

3418

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 µg for IP and 1:500-1:2000 for WB

IHC 1:200-1:800

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

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 skeletal muscle tissue, Jurkat cells, mouse brain tissue, mouse heart tissue, rat liver tissue, SH-SY5Y cells, NIH/3T3 cells, HeLa cells, mouse liver 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
He Wen	25251602	J Neurochem	WB, IF
Shilei Zang	29039582	Oncol Rep	
Xiaoyu Ma	25301052	Nat Commun	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

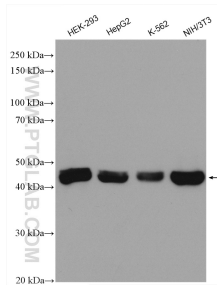
For technical support and original validation data for this product please contact:

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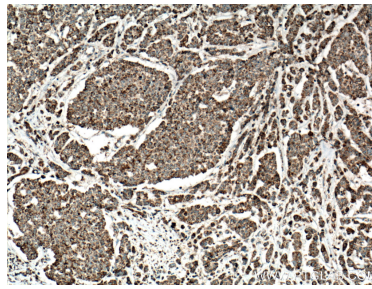
E: proteintech@ptglab.com
W: ptglab.com

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

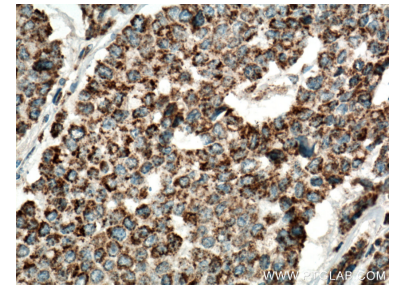
Selected Validation Data



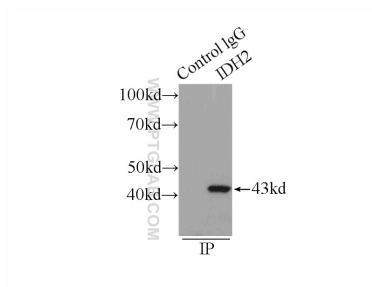
Various lysates were subjected to SDS PAGE followed by western blot with 15932-1-AP (IDH2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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.