

For Research Use Only

DHFR Polyclonal antibody

Catalog Number: 15194-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

15194-1-AP

Size:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7331

GenBank Accession Number:

BC000192

GeneID (NCBI):

1719

UNIPROT ID:

P00374

Full Name:

dihydrofolate reductase

Calculated MW:

21 kDa

Observed MW:

21 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

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

protein lysate

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, zebrafish

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, HeLa cells, Jurkat cells, K-562 cells, Raji cells, mouse kidney tissue, mouse liver tissue, rat kidney tissue

IP: Raji cells,

IHC: human liver cancer tissue, human breast cancer tissue

IF/ICC: HeLa cells,

Background Information

DHFR (dihydrofolate reductase) catalyzes the subsequent NADPH-dependent reduction of the H₂folate produced by TS to regenerate the tetrahydrofolate (H₄folate) necessary for continued dTMP synthesis and transfer of 1-carbon units (PMID:3461439). It belongs to the dihydrofolate reductase family and can exist as a homodimer (PMID:2248959). DHFR is widely expressed in fetal and adult human brain and whole blood, expression is higher in adult brain than fetal brain (PMID:21310276).

Notable Publications

Author	Pubmed ID	Journal	Application
Kenrick A Waite	35975718	J Cell Sci	WB
Yinghui Wang	34601503	Cell Death Dis	WB,IF
Jungang Chen	32461120	Antiviral Res	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:

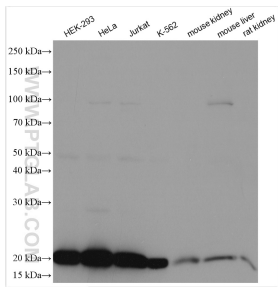
T: 4006900926

E: Proteintech-CN@ptglab.com

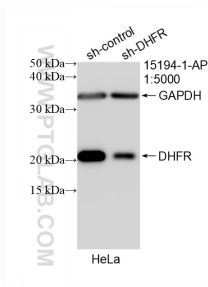
W: ptgcn.com

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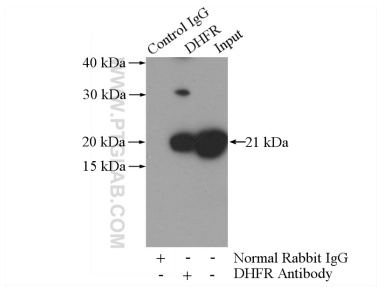
Selected Validation Data



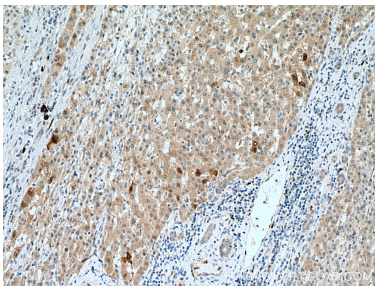
Various lysates were subjected to SDS PAGE followed by western blot with 15194-1-AP (DHFR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



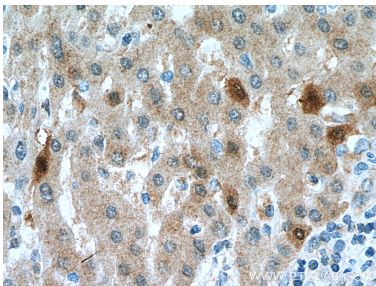
WB result of DHFR antibody (15194-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHFR transfected HeLa cells.



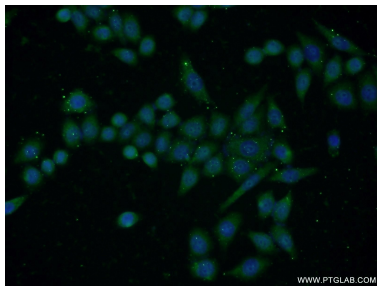
IP result of anti-DHFR (IP:15194-1-AP, 3ug; Detection:15194-1-AP 1:500) with Raji cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15194-1-AP (DHFR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15194-1-AP (DHFR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 15194-1-AP (DHFR antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).