

For Research Use Only

# DHFR Polyclonal antibody

Catalog Number: 15194-1-AP

Featured Product

20 Publications



## Basic Information

### Catalog Number:

15194-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

### 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

\*\*\* 20ul sizes contain 0.1% BSA

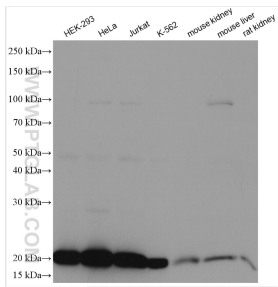
For technical support and original validation data for this product please contact:

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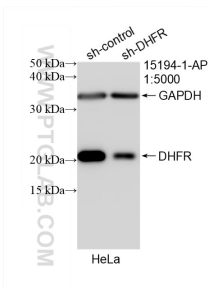
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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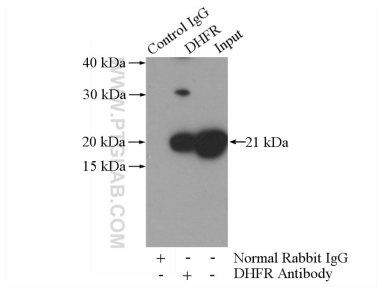
Selected Validation Data



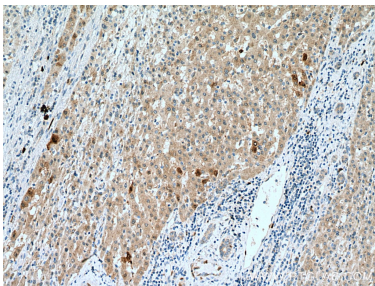
Various lysates were subjected to SDS PAGE followed by western blot with 15194-1-AP (DHFR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



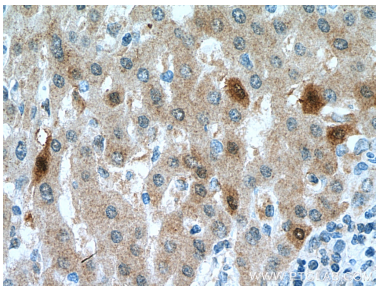
WB result of DHFR antibody (15194-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHFR transfected HeLa cells.



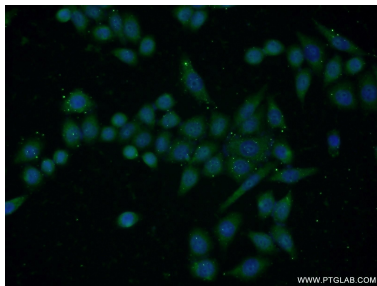
IP result of anti-DHFR (IP:15194-1-AP, 3ug; Detection:15194-1-AP 1:500) with Raji cells lysate 2000ug.



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).