

For Research Use Only

# DHFR Polyclonal antibody

Catalog Number: 15194-1-AP

Featured Product

18 Publications



## Basic Information

**Catalog Number:**

15194-1-AP

**Size:**

650 µg/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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, 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, Raji cells, Jurkat cells, K-562 cells, mouse kidney tissue, mouse liver tissue, rat kidney tissue

**IP:** Raji cells,

**IHC:** human liver cancer tissue, human breast cancer tissue

**IF:** 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:

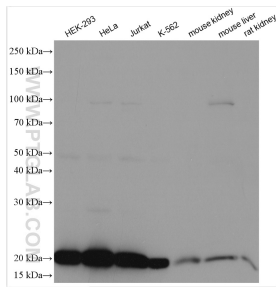
T: 4006900926

E: Proteintech-CN@ptglab.com

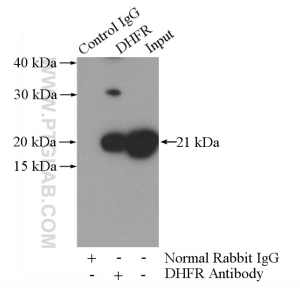
W: ptgcn.com

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

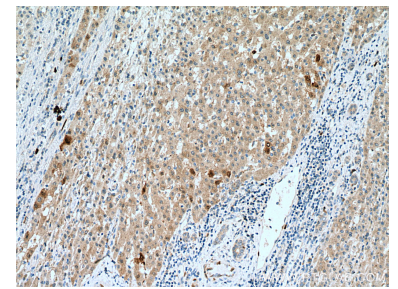
## Selected Validation Data



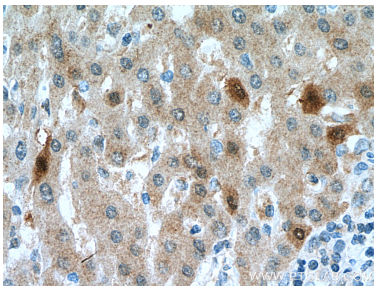
Various lysates were subjected to SDS PAGE followed by western blot with 15194-1-AP (DHFR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



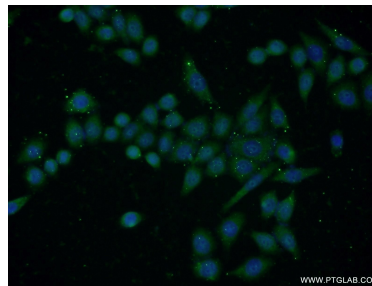
IP result of anti-DHFR (IP:15194-1-AP, 3ug; Detection:15194-1-AP 1:500) with Raji cells lysate 2000ug.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).