

For Research Use Only

DHFR Recombinant antibody

Catalog Number: 81021-1-RR

Featured Product



Basic Information

Catalog Number:

81021-1-RR

Size:

100ul, Concentration: 1000 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:

Protein A purification

CloneNo.:

7P5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

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 : K-562 cells, HeLa cells, Jurkat cells, HEK-293 cells, MOLT-4 cells

IHC : human liver cancer tissue,

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).

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

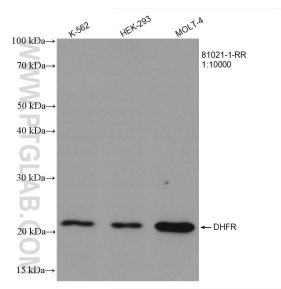
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

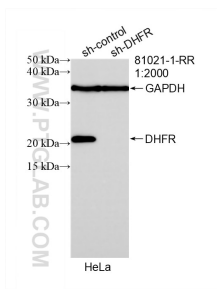
E: proteintech@ptglab.com
W: ptglab.com

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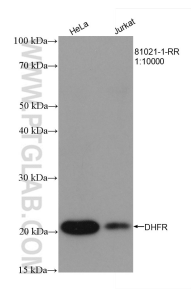
Selected Validation Data



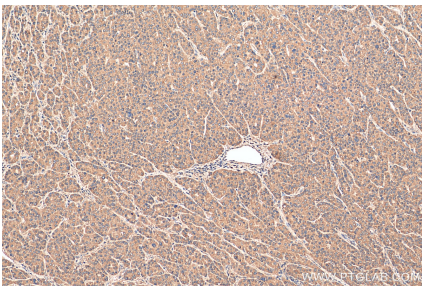
Various lysates were subjected to SDS PAGE followed by western blot with 81021-1-RR (DHFR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



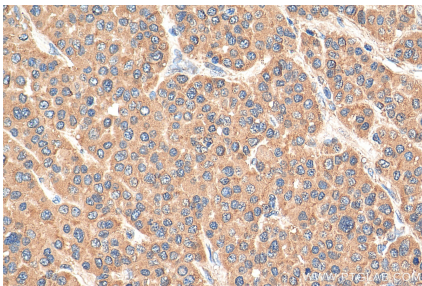
WB result of DHFR antibody (81021-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DHFR transfected HeLa cells.



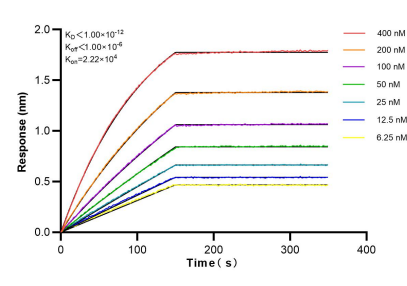
Various lysates were subjected to SDS PAGE followed by western blot with 81021-1-RR (DHFR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81021-1-RR (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 81021-1-RR (DHFR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 81021-1-RR against Human DHFR were performed. The affinity constant is below 1 pM.