

For Research Use Only

# DHFR Monoclonal antibody

Catalog Number: 68274-1-Ig



## Basic Information

<b>Catalog Number:</b> 68274-1-Ig	<b>GenBank Accession Number:</b> BC000192	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1719	<b>CloneNo.:</b> 4C11E9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00374	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG1	<b>Full Name:</b> dihydrofolate reductase	
<b>Immunogen Catalog Number:</b> AG7318	<b>Calculated MW:</b> 21 kDa	
	<b>Observed MW:</b> 21 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : LNCaP cells, NIH/3T3 cells, HeLa cells, HEK-293 cells, Jurkat cells
<b>Species Specificity:</b> human, mouse	

## 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

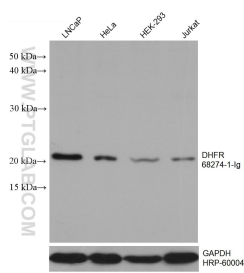
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

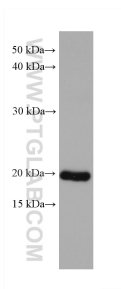
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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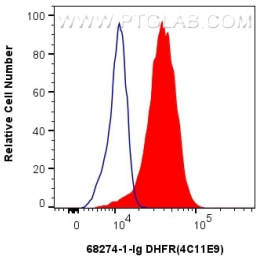
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68274-1-Ig (DHFR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 68274-1-Ig (DHFR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug DHFR Monoclonal antibody (68274-1-Ig, Clone:4C11E9) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).