
Product Name: KD-Validated Dihydrofolate Reductase Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01588**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 21.5kDa

Antigen Information

Gene Name	DHFR
Alternative Names	DHFR; Dihydrofolate Reductase; DHFR1; EC 1.5.1.3; DHFRP1; DYR
Gene ID	1719.0
SwissProt ID	P00374
Immunogen	A synthesized peptide derived from human DHFR

Background

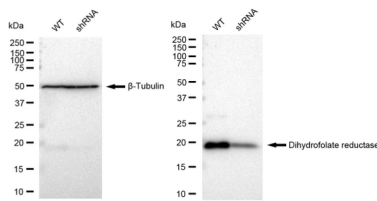
Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylc acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been

identified on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]

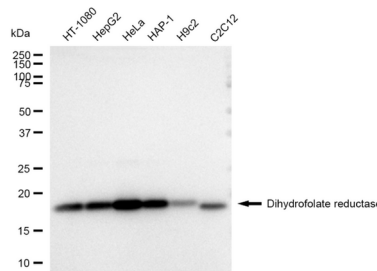
Research Area

Signal Transduction, Cell Biology, Metabolism, Neuroscience

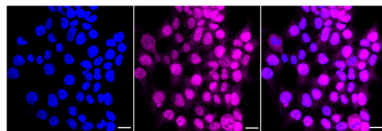
Image Data



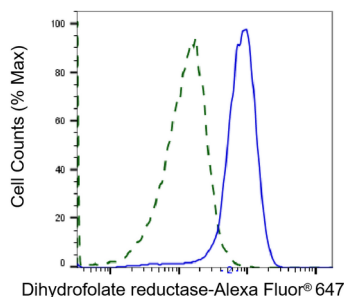
Western blotting analysis using Dihydrofolate reductase antibody (KVA01588). Dihydrofolate reductase expression in wild type (WT) and Dihydrofolate reductase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Dihydrofolate reductase antibody (KVA01588, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



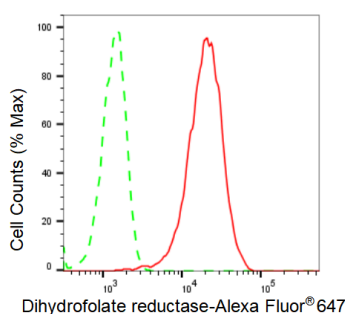
Western blotting analysis using Dihydrofolate reductase antibody (KVA01588). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Dihydrofolate reductase antibody (KVA01588, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Dihydrofolate reductase antibody (KVA01588, 1:1,000). Nuclei were stained blue with DAPI; Dihydrofolate reductase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of Dihydrofolate reductase knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Dihydrofolate reductase antibody (KVA01588, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Dihydrofolate reductase expression in HeLa cells using Dihydrofolate reductase antibody (KVA01588, 1:2,000). Green, isotype control; red, Dihydrofolate reductase.