

Mouse anti-Human, Rat DHFR Monoclonal Antibody | anti-DHFR antibody

DHFR (Dihydrofolate reductase) (HRP)

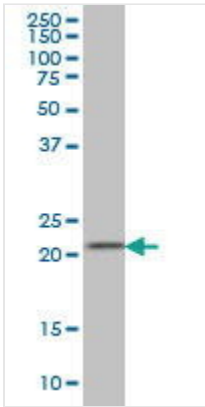
CATALOG # AAA25372	HOST Mouse	REACTIVITY Human, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

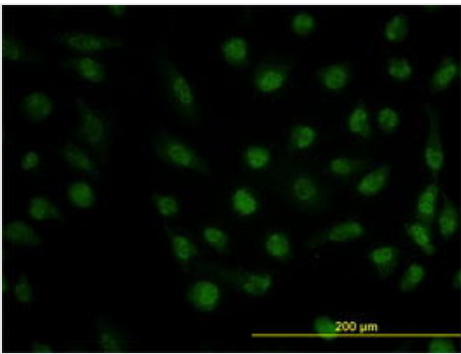
DHFR; Monoclonal Antibody; DHFR (Dihydrofolate reductase) (HRP); anti-DHFR antibody

PRODUCT SPECIFICATIONS

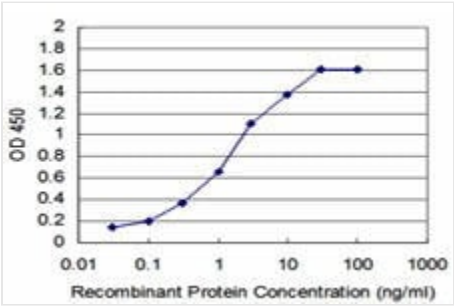
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2B10
Specificity	Recognizes human DHFR. Species Crossreactivity: rat
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Sequence Length	1133
Applicable Applications for anti-DHFR antibody	ELISA, WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant protein corresponding to aa88-187 of human DHFR (BC003584; AAH03584) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	HFLSRSLDDALKLTEQPELANKVDMVWIVGGSSVYKEAMNHPGHLKLFVTRIMQDFESDTFFPEIDLEKYKLLPEYPGVLSDVQEEKGIKYKFEVYEKND
Conjugate	HRP
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



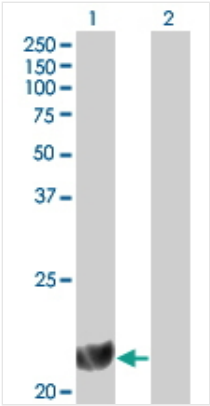
WB (Western Blot)
Western Blot analysis of DHFR expression in HeLa.



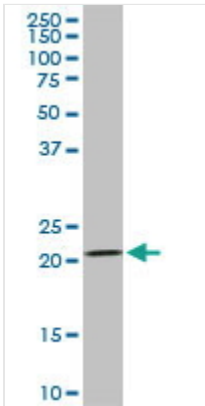
IF (Immunofluorescence)
Immunofluorescence on HeLa cells using 125814 (10ug/ml).



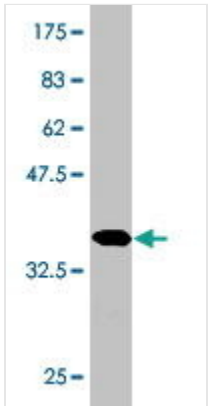
Application Data
Detection limit for 125814 is ~0.1ng/ml as a capture antibody.



WB (Western Blot)
Western Blot analysis of DHFR expression in transfected 293T cell line using 125814. Lane 1: DHFR transfected lysate (21.5kD). Lane 2: Non-transfected lysate.



WB (Western Blot)
Western Blot analysis of DHFR expression in PC-12 using 125814.



WB (Western Blot)
Western Blot detection against immunogen (36.74kD).

ADDITIONAL INFORMATION

Related Product Information for anti-DHFR antibody	Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia.
Product Categories/Family for anti-DHFR antibody	Antibodies; Enzymes

References	1. Influence of Reduced Folate Carrier and Dihydrofolate Reductase Genes on Methotrexate-Induced Cytotoxicity. Yoon SA, Choi JR, Kim JO, Shin JY, Zhang X, Kang JH. <i>Cancer Res Treat.</i> 2010 Sep;42(3):163-71. Epub 2010 Sep 30. 2. Telomere capping in non-dividing yeast cells requires Yku and Rap1. Vodenicharov MD, Laterreur N, Wellinger RJ. <i>EMBO J.</i> 2010 Jul 13. 3. Anticancer drug encapsulated in inorganic lattice can overcome drug resistance. Choi SJ, Choi GE, Oh JM, Oh YJ, Park MC, Choy JH. <i>J. Mater. Chem.</i>, 2010, 20, 9463-9469. 4. Deficient BH4 production via de novo and salvage pathways regulates NO responses to cytokines in adult cardiac myocytes. Ionova IA, Vasquez-Vivar J, Whitsett J, Herrnreiter A, Medhora M, Cooley BC, Pieper GM. <i>Am J Physiol Heart Circ Physiol.</i> 2008 Nov;295(5):H2178-87. Epub 2008 Oct 3.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13097773
NCBI GeneID	1719
NCBI Official Full Name	Homo sapiens dihydrofolate reductase, mRNA
NCBI Official Synonym Full Names	dihydrofolate reductase
NCBI Official Symbol	DHFR
NCBI Official Synonym Symbols	DYR; DHFRP1
NCBI Protein Information	dihydrofolate reductase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.