

## Anti-Dihydrofolate reductase (DHFR) Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PB9175-Fluoro594

### About DHFR

Dihydrofolate reductase, or DHFR, is an enzyme that reduces dihydrofolic acid to tetrahydrofolic acid, using NADPH as electron donor, which can be converted to the kinds of tetrahydrofolate cofactors used in 1-carbon transfer chemistry. In humans, the DHFR enzyme is encoded by the DHFR gene. It is found in the q11-q22 region of chromosome 5. What's more, DHFR belongs to the dihydrofolate reductase family, and it converts dihydrofolate into tetrahydrofolate, a methyl group shuttle required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. DHFR is the key enzyme in folate metabolism. In addition, DHFR catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis.

### Overview

Product Name	Anti-Dihydrofolate reductase (DHFR) Antibody Picoband® Fluoro594 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P00374

### Technical Details

Immunogen	E.coli-derived human DHFR recombinant protein (Position: V2-D187). Human DHFR shares 90% amino acid (aa) sequence identity with both mouse and rat DHFR.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594

	Excitation Wavelength: 593 nm Emission Wavelength: 618 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

## 1 Publications Citing This Product

1. PubMed ID: 24297308, Tian L, Zhang J, Ge J, Xiao H, Lu J, Fu S, Liu M, Sun Y. Med Oncol. 2014 Jan;31(1):785. Doi: 10.1007/S12032-013-0785-3. Epub 2013 Dec 3. Microrna-205 Suppresses Proliferation And Promotes Apoptosis In Laryngeal Squamous Cell Carcinoma.

Visit [bosterbio.com/anti-dhfr-picoband-trade-antibody-pb9175-boster.html](http://bosterbio.com/anti-dhfr-picoband-trade-antibody-pb9175-boster.html) to see all 1 publications.

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