

Datasheet for ABIN3043286

**anti-Dihydrofolate Reductase antibody (AA 2-187)**

5 Images

1 Publication

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## Overview

Quantity:	100 µg
Target:	Dihydrofolate Reductase (DHFR)
Binding Specificity:	AA 2-187
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Dihydrofolate Reductase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Dihydrofolate reductase(DHFR) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Dihydrofolate reductase(DHFR) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: dihydrofolate reductase</p> <p>Protein Name: Dihydrofolate reductase</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	Dihydrofolate Reductase (DHFR)
Alternative Name:	DHFR ( <a href="#">DHFR Products</a> )
Background:	<p>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 <i>q11→q22 region of chromosome 5</i>. <i>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.</i></p> <p>Synonyms: DHFR antibody DHFRP1 antibody Dihydrofolate reductase antibody DYR antibody DYR_HUMAN antibody EC 1.5.1.3 antibody</p>
Gene ID:	1719
UniProt:	<a href="#">P00374</a>
Pathways:	<a href="#">Mitotic G1-G1/S Phases</a>

## Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat Notes: Reacts with: human, mouse, rat
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.

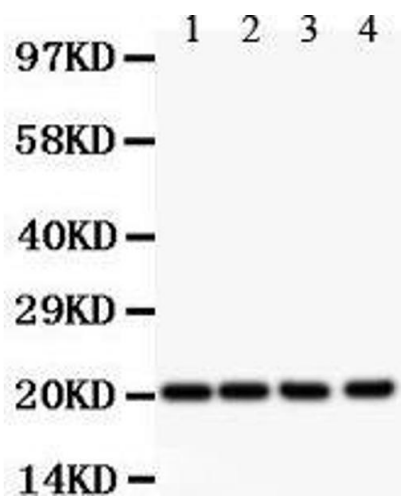
## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

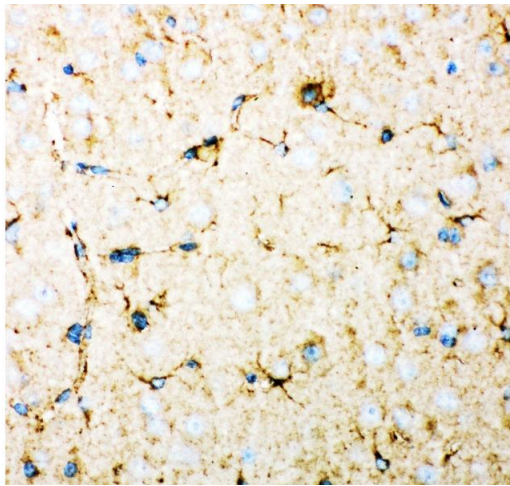
Product cited in:	Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: <b>Molecular vision</b> , Vol. 16, pp. 2384-94, (2011) ( <a href="#">PubMed</a> ).
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## Images



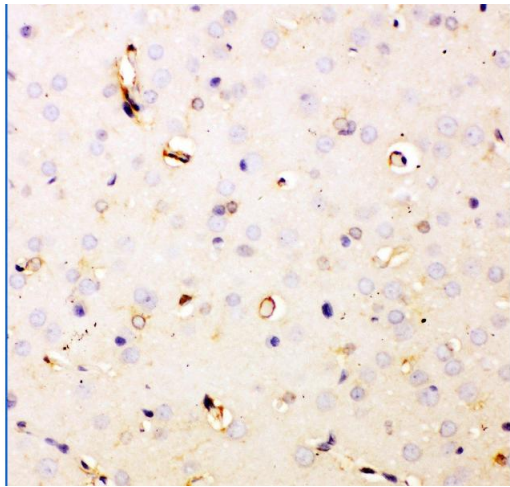
**Western Blotting**

**Image 1.**



#### Immunohistochemistry

**Image 2.** Anti- DHFR Picoband antibody,IHC(P) IHC(P):  
Mouse Brain Tissue



#### Immunohistochemistry

**Image 3.** Anti- DHFR Picoband antibody,IHC(P) IHC(P): Rat  
Brain Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043286.