BOSTER BIOLOGICAL TECHNOLOGY
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Anti-DHFR Antibody Picoband® (monoclonal, 3C8)

Catalog Number: M00813-1

About DHFR

SHC, also known as SHC1 (SHC-transforming protein 1) or SHCA, is a protein that in humans is encoded by the SHC1 gene. SCOP classifies the 3D structure as belonging to the SH2 domain family. This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene.

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Overview

Product Name	Anti-DHFR Antibody Picoband® (monoclonal, 3C8)
Reactive Species	Human, Rat
Description	Boster Bio Anti-DHFR Antibody Picoband® (monoclonal, 3C8) catalog # M00813-1. Tested in IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Monoclonal 3C8
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P00374

Technical Details

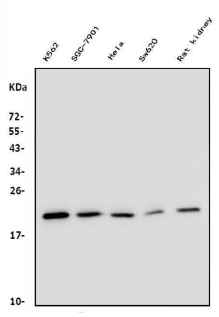
Immunogen	E.coli-derived human DHFR recombinant protein (Position: V2-D187). Human DHFRshares90%aminoacid (aa)sequenceidentitywith both mouseandrat DHFR.

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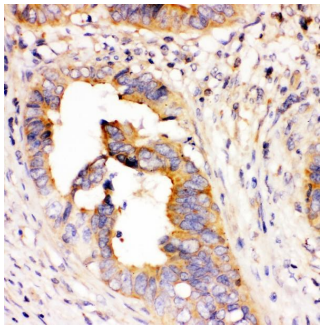
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

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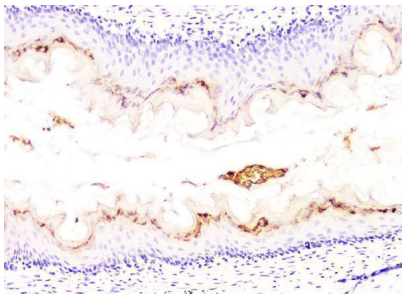
Anti-DHFR Antibody Picoband® (monoclonal, 3C8) (M00813-1) Images



Western blot analysis of DHFR using anti-DHFR antibody (M00813-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human SGC-7901 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human SW620 whole cell lysates, Lane 5: rat kidney tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-DHFR antigen affinity purified monoclonal antibody (Catalog # M00813-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for DHFR at approximately 22KD. The expected band size for DHFR is at 22KD.



IHC analysis of DHFR using anti-DHFR antibody (M00813-1). DHFR was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DHFR Antibody (M00813-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.



IHC analysis of DHFR using anti-DHFR antibody (M00813-1). DHFR was detected in paraffin-embedded section of rat gaster tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DHFR Antibody (M00813-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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.

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