

Anti-DHODH Picoband Antibody
Catalog # ABO11674**Specification**

Anti-DHODH Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	Q02127
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Dihydroorotate dehydrogenase (quinone), mitochondrial(DHODH) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-DHODH Picoband Antibody - Additional Information

Gene ID 1723

Other Names

Dihydroorotate dehydrogenase (quinone), mitochondrial, DHODEHase, 1.3.5.2, Dihydroorotate oxidase, DHODH

Calculated MW

42867 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Mitochondrion inner membrane ; Single-pass membrane protein .

Protein Name

Dihydroorotate dehydrogenase (quinone), mitochondrial

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human DHODH (132-173aa RVFRLPEDQAVINRYGFNSHGLSVVEHRLRARQKQAKLTE D), different from the related mouse sequence by four amino acids, and from the related rat sequence by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

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.

Anti-DHODH Picoband Antibody - Protein Information

Name DHODH

Function

Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor. Required for UMP biosynthesis via de novo pathway.

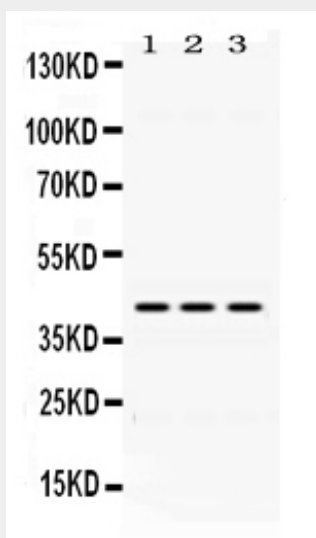
Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

Anti-DHODH Picoband Antibody - Protocols

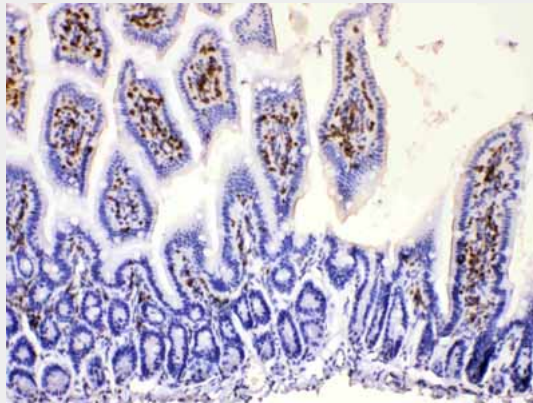
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

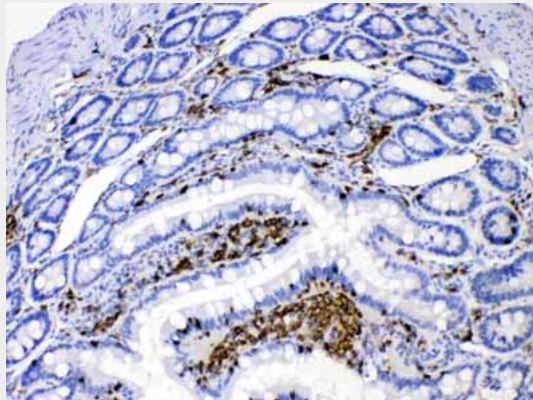
Anti-DHODH Picoband Antibody - Images

Western blot analysis of DHODH expression in rat liver extract (lane 1), mouse spleen extract

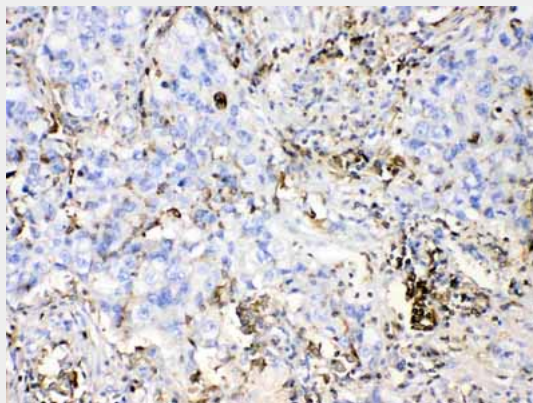
(lane 2) and HEPG2 whole cell lysates (lane 3). DHODH at 43KD was detected using rabbit anti-DHODH Antigen Affinity purified polyclonal antibody (Catalog # ABO11674) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



DHODH was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-DHODH Antigen Affinity purified polyclonal antibody (Catalog # ABO11674) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



DHODH was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-DHODH Antigen Affinity purified polyclonal antibody (Catalog # ABO11674) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



DHODH was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-DHODH Antigen Affinity purified polyclonal antibody (Catalog # ABO11674) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-DHODH Picoband Antibody - Background

Dihydroorotate dehydrogenase (DHODH) is an enzyme that in humans is encoded by the DHODH gene on chromosome 16. The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane.