

Anti-DHODH Picoband Antibody

Catalog # ABO11674

Product Information

Application	WB, IHC-P
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.

Additional Information

Gene ID	1723
Other Names	Dihydroorotate dehydrogenase (quinone), mitochondrial, DHodehase, 1.3.5.2, Dihydroorotate oxidase, DHODH
Calculated MW	42867
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 .
Source	Eukaryota
Protein Name	Dihydroorotate dehydrogenase (quinone), mitochondrial
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
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.

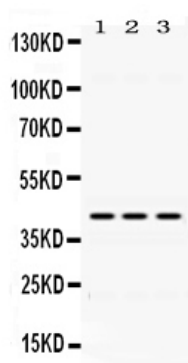
Protein Information

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

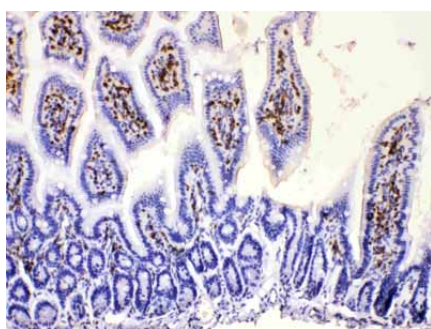
Background

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.

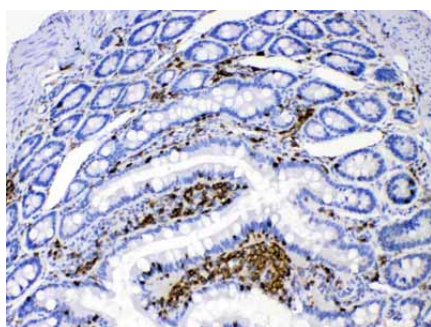
Images



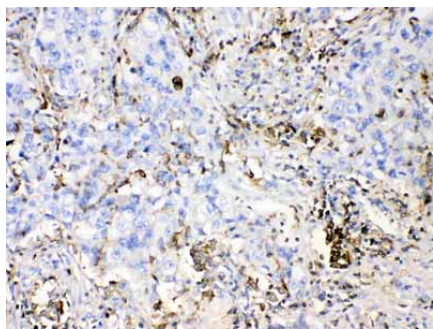
Western blot analysis of DHODH expression in rat liver extract (lane 1), mouse spleen extract (lane 2) and HEPG2 whole cell lysates (lane 3). DHODH at 43KD was detected using rabbit anti- DHODH Antigen Affinity purified polyclonal antibody (Catalog # ABO11674) at 0.5 µg/mL. The blot was developed using 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 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.