abcam

Product datasheet

Anti-DHODH antibody [EPR11814] - BSA and Azide free ab238968

Recombinant RabMAb

1 Image

Overview

Product name	Anti-DHODH antibody [EPR11814] - BSA and Azide free
Description	Rabbit monoclonal [EPR11814] to DHODH - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment within Human DHODH. The exact sequence is proprietary. Database link: Q02127
Positive control	WB: Human fetal heart tissue lysate. SK-BR-3, MCF7, HepG2 and Jurkat cell lysates.
General notes	Ab238968 is the carrier-free version of ab174288. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. ab238968 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11814
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab238968** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

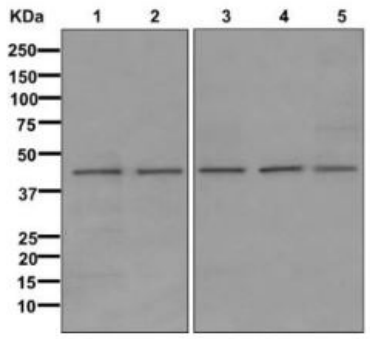
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 43 kDa.

Application notes	Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

Function	Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor.
Pathway	Pyrimidine metabolism; UMP biosynthesis via de novo pathway; orotate from (S)-dihydroorotate (quinone route): step 1/1.
Involvement in disease	Defects in DHODH are the cause of postaxial acrofacial dysostosis (POADS) [MIM:263750]; also known as Miller syndrome. POADS is characterized by severe micrognathia, cleft lip and/or palate, hypoplasia or aplasia of the posterior elements of the limbs, coloboma of the eyelids and supernumerary nipples. POADS is a very rare disorder: only 2 multiplex families, each consisting of 2 affected siblings born to unaffected, nonconsanguineous parents, have been described among a total of around 30 reported cases.
Sequence similarities	Belongs to the dihydroorotate dehydrogenase family. Type 2 subfamily.
Post-translational modifications	The uncleaved transit peptide is required for mitochondrial targeting and proper membrane integration.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-DHODH antibody [EPR11814] - BSA and Azide free (ab238968)

All lanes : Anti-DHODH antibody [EPR11814] (ab174288) at 1/1000 dilution

Lane 1 : SK-BR-3 (Human mammary gland adenocarcinoma cell line) cell lysate
Lane 2 : Human fetal heart tissue lysate
Lane 3 : MCF7 (Human breast adenocarcinoma cell line) cell lysate
Lane 4 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate
Lane 5 : Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 43 kDa

Note: ab174288 is diluted in 1% BSA.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, tissue culture supernatant and sodium azide (ab174288).

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