abcam

Product datasheet

Anti-Methylmalonyl Coenzyme A mutase antibody ab229486

1 Image

Overview

Product name	Anti-Methylmalonyl Coenzyme A mutase antibody
Description	Rabbit polyclonal to Methylmalonyl Coenzyme A mutase
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Cow, Rhesus monkey
Immunogen	Recombinant fragment within Human Methylmalonyl Coenzyme A mutase (internal sequence). The exact sequence is proprietary. Database link: **P22033**
Positive control	WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229486 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		1/500 - 1/3000. Predicted molecular weight: 83 kDa.

Target

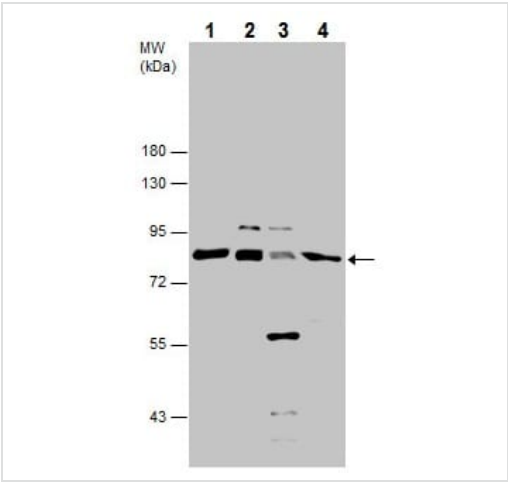
Function Involved in the degradation of several amino acids, odd-chain fatty acids and cholesterol via propionyl-CoA to the tricarboxylic acid cycle. MCM has different functions in other species.

Involvement in disease Defects in MUT are the cause of methylmalonic aciduria type mut (MMAM) [MIM:251000]. MMAM is an often fatal disorder of organic acid metabolism. Common clinical features include lethargy, vomiting, failure to thrive, hypotonia, neurological deficit and early death. Two forms of the disease are distinguished by the presence (mut-) or absence (mut0) of residual enzyme activity. Mut0 patients have more severe neurological manifestations of the disease than do MUT- patients. MMAM is unresponsive to vitamin B12 therapy.

Sequence similarities Belongs to the methylmalonyl-CoA mutase family.
Contains 1 B12-binding domain.

Cellular localization Mitochondrion matrix.

Images



Western blot - Anti-Methylmalonyl Coenzyme A mutase antibody (ab229486)

All lanes : Anti-Methylmalonyl Coenzyme A mutase antibody (ab229486) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract
Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 83 kDa

7.5% SDS-PAGE gel.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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