

# Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free ab236068

KO 評価済 リコンビナント RabMAb

画像数 6

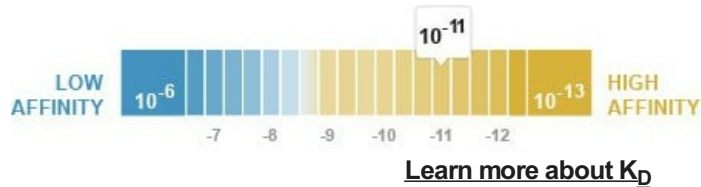
### 製品の概要

製品名	Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR7739] to Methylmalonyl Coenzyme A mutase - BSA and Azide free
由来種	Rabbit
特異性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
アプリケーション	<b>適用あり:</b> IHC-P, ICC/IF, WB
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HAP1, HeLa and K562 cell lysates.
特記事項	<p>ab236068 is the carrier-free version of <a href="#">ab133672</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 9.40 x 10 <sup>-11</sup> M



バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR7739
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab236068の使用に適用されず  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 78 kDa (predicted molecular weight: 83 kDa).

## ターゲット情報

機能	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.
関連疾患	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.

### 配列類似性

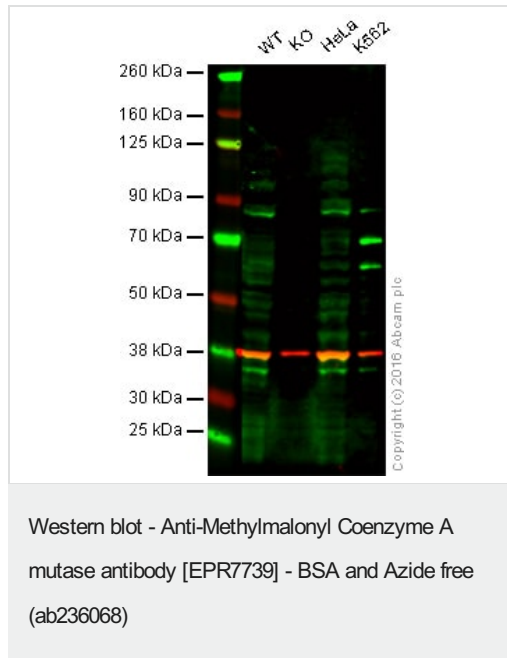
Belongs to the methylmalonyl-CoA mutase family.

Contains 1 B12-binding domain.

### 細胞内局在

Mitochondrion matrix.

### 画像



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** Methylmalonyl Coenzyme A mutase knockout HAP1 cell lysate (20 µg)

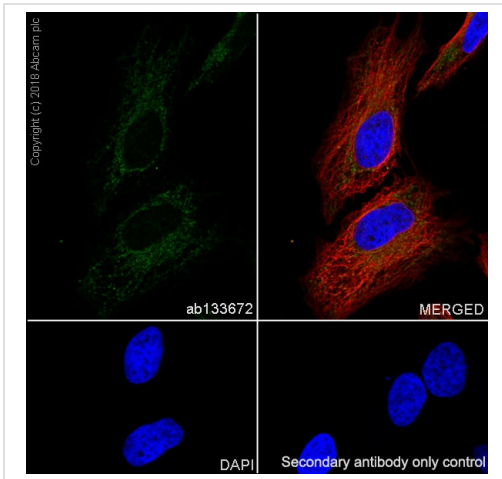
**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** K562 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab133672](#) observed at 85 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

[ab133672](#) was shown to specifically react with Methylmalonyl Coenzyme A mutase when Methylmalonyl Coenzyme A mutase knockout samples were used. Wild-type and Methylmalonyl Coenzyme A mutase knockout samples were subjected to SDS-PAGE. [ab133672](#) and [ab8245](#) (loading control to GAPDH) were diluted at 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

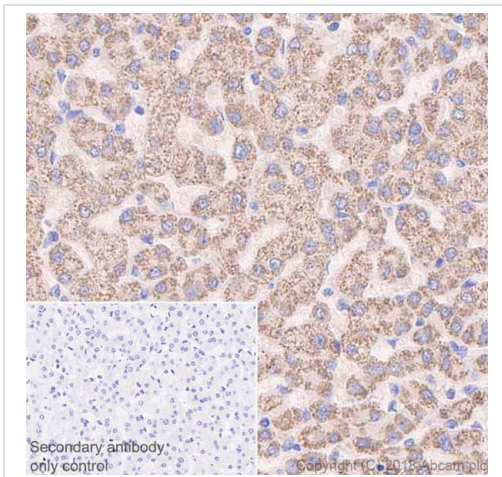
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133672](#)).



Immunocytochemistry/ Immunofluorescence - Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free (ab236068)

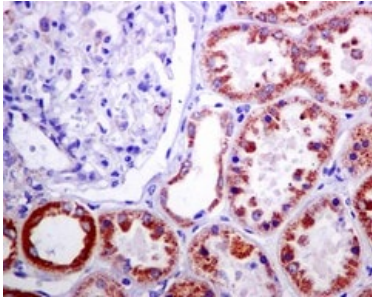
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Methylmalonyl Coenzyme A mutase with Purified **ab133672** at 1:100 dilution (9.9 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor®594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133672**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free (ab236068)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling Methylmalonyl Coenzyme A mutase with Purified **ab133672** at 1:100 dilution (8.7 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0) Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133672**).

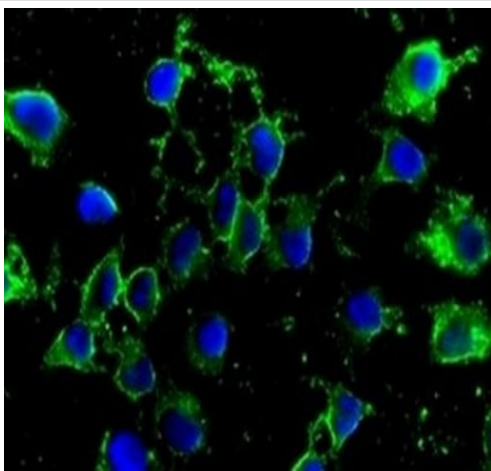


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free (ab236068)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling Methylmalonyl Coenzyme A mutase with unpurified **ab133672** at 1/50.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133672**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.





Immunocytochemistry/ Immunofluorescence - Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free (ab236068)


Immunofluorescent staining of HeLa cells labelling Methylmalonyl Coenzyme A mutase with unpurified **ab133672** at 1/100.


This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133672**).

### Why choose a recombinant antibody?

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**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-Methylmalonyl Coenzyme A mutase antibody [EPR7739] - BSA and Azide free (ab236068)

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

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