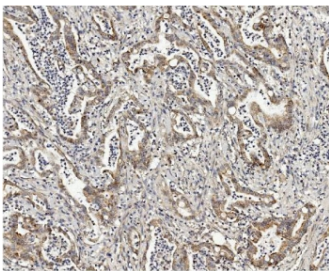


## MMUT Antibody / Methylmalonyl Coenzyme A Mutase [clone 2D6] (RQ5944)

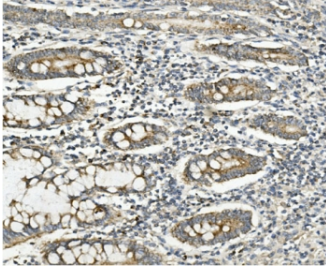
Catalog No.	Formulation	Size
RQ5944	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

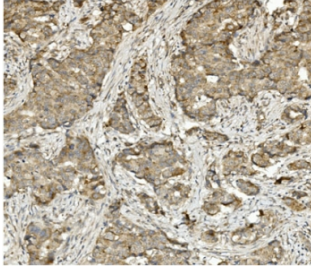
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b
<b>Clone Name</b>	2D6
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P22033
<b>Localization</b>	Cytoplasmic (mitochondria)
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml
<b>Limitations</b>	This MMUT antibody is available for research use only.



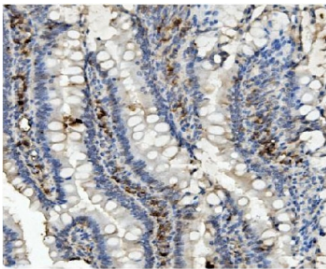
IHC staining of FFPE human rectal cancer with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



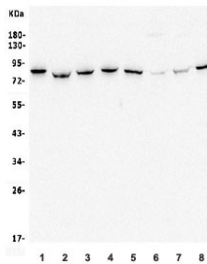
IHC staining of FFPE human rectal cancer with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) K562, 3) HEK293, 4) PC-3, 5) Caco-2, 6) Raji, 7) rat PC-12 and 8) mouse NIH 3T3 lysate with MMUT antibody. Predicted molecular weight ~83 kDa.

## Description

Methylmalonyl-CoA mutase (MUT) is a mitochondrial enzyme that catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA. This gene is mapped to 6p12.3. MUT requires a vitamin B12-derived prosthetic group, adenosylcobalamin (commonly referred to as AdoCbl), to function. And the product of this enzyme, succinyl-CoA, is a key molecule of the TCA cycle.

## Application Notes

Optimal dilution of the MMUT antibody should be determined by the researcher.

## Immunogen

Amino acids LHQQQLHPEWAALAKKQLKGKNPEDLIWHTPE from the human protein were used as the immunogen for the MMUT antibody.

## Storage

After reconstitution, the MMUT antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

