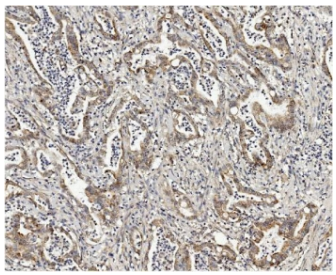
MMUT Antibody / Methylmalonyl Coenzyme A Mutase [clone 2D6] (RQ5944)

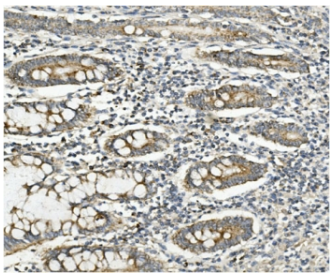
Catalog No.	Formulation	Size
RQ5944	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

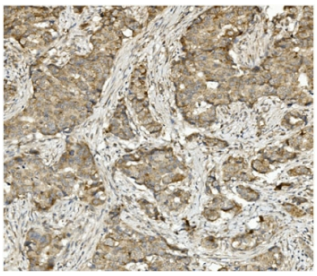
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	2D6
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P22033
Localization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



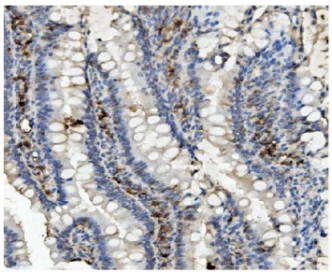
IHC staining of FFPE human rectal cancer with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



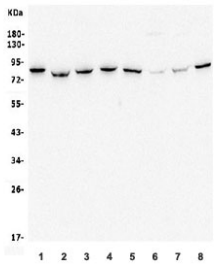
IHC staining of FFPE human rectal cancer with MMUT antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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 LHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPE 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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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