

Anti-MUT Picoband Antibody

Catalog # ABO10146

Product Information

Application	WB, IHC-P
Primary Accession	P22033
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Methylmalonyl-CoA mutase, mitochondrial(MUT) detection. Tested with WB, IHC-P in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4594
Other Names	Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MUT
Calculated MW	83134
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat
Subcellular Localization	Mitochondrion matrix.
Source	Eukaryota
Protein Name	Methylmalonyl-CoA mutase, mitochondrial
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MUT (33-65aa LHQQQLHPEWAALAKKQLKGKNPEDLIWHTPE), different from the related mouse sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

freezing and thawing.

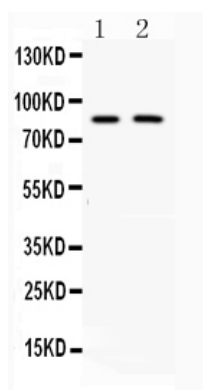
Protein Information

Name	MMUT (HGNC:7526)
Function	Catalyzes the reversible isomerization of methylmalonyl-CoA (MMCoA) (generated from branched-chain amino acid metabolism and degradation of dietary odd chain fatty acids and cholesterol) to succinyl-CoA (3-carboxypropionyl-CoA), a key intermediate of the tricarboxylic acid cycle.
Cellular Location	Mitochondrion matrix. Mitochondrion. Cytoplasm

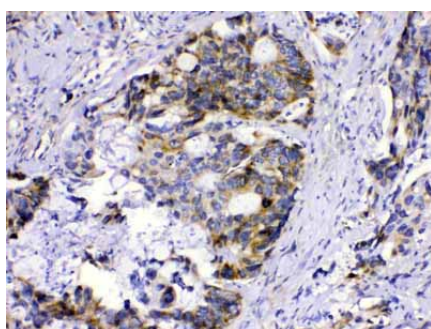
Background

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.

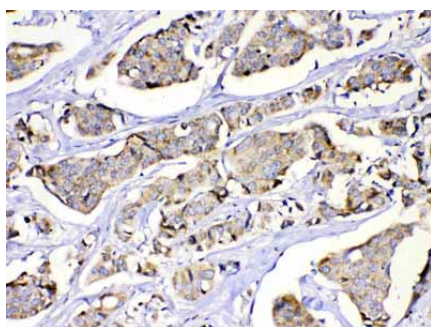
Images



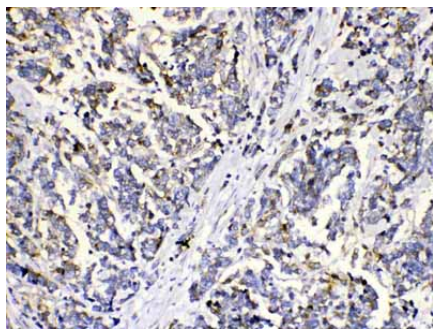
Western blot analysis of MUT expression in rat kidney extract (lane 1) and 22RV1 whole cell lysates (lane 2). MUT at 83KD was detected using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog #ABO10146) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



MUT was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



MUT was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



MUT was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- MUT Antigen Affinity purified polyclonal antibody (Catalog # ABO10146) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.