

## Rabbit Methylmalonyl Coenzyme A mutase Polyclonal Antibody | anti-MUT antibody

Methylmalonyl Coenzyme A mutase Antibody

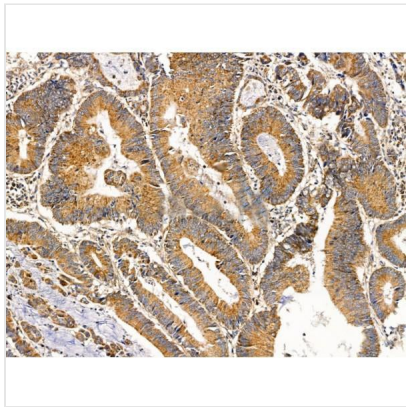
| CATALOG # | HOST   | REACTIVITY                                                                                                                    | APPLICATIONS |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------|--------------|
| AAA329186 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Sheep(100%), Rabbit(100%), Chicken(100%) | ELISA        |

### PRODUCT SYNONYMS

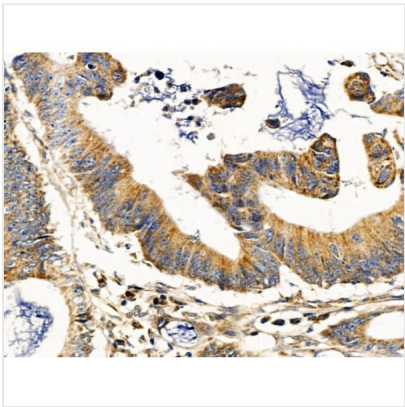
Methylmalonyl Coenzyme A mutase; Polyclonal Antibody; Methylmalonyl Coenzyme A mutase Antibody; MCM; Methylmalonyl CoA isomerase; Methylmalonyl CoA mutase mitochondrial; Methylmalonyl-CoA isomerase; Methylmalonyl-CoA mutase; mitochondrial; Mut; MUTA\_HUMAN; anti-MUT antibody

### PRODUCT SPECIFICATIONS

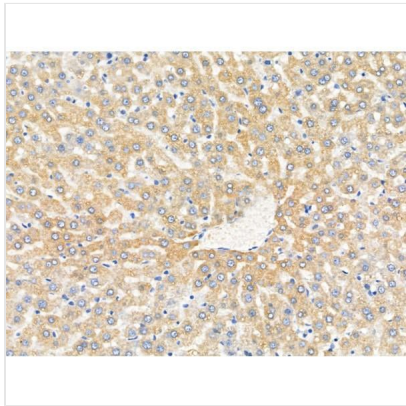
|                                               |                                                                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                             |
| Reactivity                                    | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Zebrafish(100%), Bovine(100%), Sheep(100%), Rabbit(100%), Chicken(100%)      |
| Clonality                                     | Polyclonal                                                                                                                         |
| Isotype                                       | IgG                                                                                                                                |
| Specificity                                   | Methylmalonyl Coenzyme A mutase Antibody detects endogenous levels of total Methylmalonyl Coenzyme A mutase.                       |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).           |
| Form/Format                                   | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol                            |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                               | 750                                                                                                                                |
| Applicable Applications for anti-MUT antibody | ELISA                                                                                                                              |
| Immunogen                                     | A synthesized peptide derived from human Methylmalonyl Coenzyme A mutase, corresponding to a region within N-terminal amino acids. |
| Fragment                                      | Fab fragment                                                                                                                       |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |



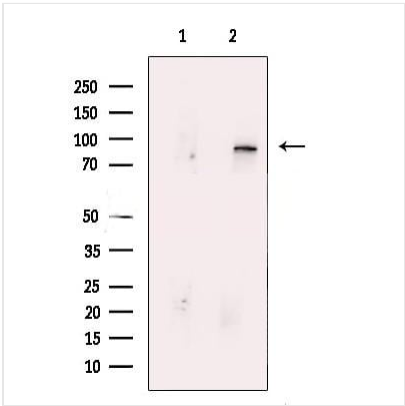
**IHC (Immunohistochemistry)**  
AAA329186 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



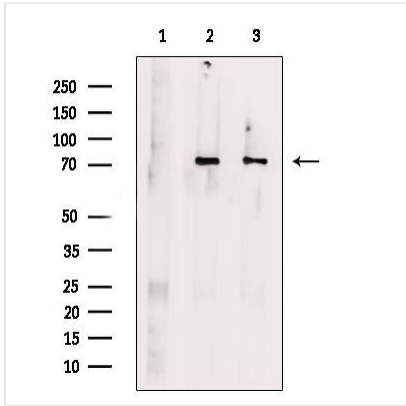
**IHC (Immunohistochemistry)**  
AAA329186 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
AAA329186 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of extracts from A431 cells, using Methylmalonyl Coenzyme A mutase Antibody. The lane on the left was treated with blocking peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from various samples, using Methylmalonyl Coenzyme A mutase Antibody. Lane 1: DU145 cells, treated with blocking peptide; Lane 2: DU145 cells; Lane 3: EC304 cells.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MUT antibody | <p>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.</p> <p>Subcellular Location: Mitochondrion matrix.</p> <p>Subunit Structure: Homodimer (PubMed:20876572). Interacts (the apoenzyme form) with MMAA; the interaction is GTP dependent (PubMed:20876572).</p> <p>Similarity: Belongs to the methylmalonyl-CoA mutase family.</p> |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 317373575                                                                                    |
| NCBI GeneID                      | 4594                                                                                         |
| UniProt Accession #              | P22033                                                                                       |
| Molecular Weight                 | Observed Molecular Weight: (Observed)83kD.<br>Predicted Molecular Weight: (Calculated)83kDa. |
| NCBI Official Full Name          | Methylmalonyl-CoA mutase, mitochondrial                                                      |
| NCBI Official Synonym Full Names | methylmalonyl-CoA mutase                                                                     |
| NCBI Official Symbol             | MMUT                                                                                         |
| NCBI Official Synonym Symbols    | MCM; MUT                                                                                     |
| NCBI Protein Information         | methylmalonyl-CoA mutase, mitochondrial                                                      |
| UniProt Protein Name             | Methylmalonyl-CoA mutase, mitochondrial                                                      |
| UniProt Gene Name                | MUT                                                                                          |
| UniProt Synonym Gene Names       | MCM                                                                                          |
| UniProt Entry Name               | MUTA_HUMAN                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.