

## Product datasheet for **CF506873**

### Methylmalonyl Coenzyme A mutase (MUT) Mouse Monoclonal Antibody [Clone ID: OTI2C8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C8
Applications:	IF, WB
Recommended Dilution:	WB 1:4000, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MUT(NP_000246) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	79.3 kDa
Gene Name:	methylmalonyl-CoA mutase
Database Link:	<a href="#">NP_000246</a> <a href="#">Entrez Gene 17850 Mouse</a> <a href="#">Entrez Gene 688517 Rat</a> <a href="#">Entrez Gene 4594 Human</a> <a href="#">P22033</a>



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**Background:**

This gene encodes the mitochondrial enzyme methylmalonyl Coenzyme A mutase. In humans, the product of this gene is a vitamin B12-dependent enzyme which catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA, while in other species this enzyme may have different functions. Mutations in this gene may lead to various types of methylmalonic aciduria. [provided by RefSeq, Jul 2008]

**Synonyms:**

MCM

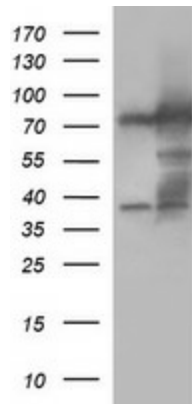
**Protein Families:**

Druggable Genome

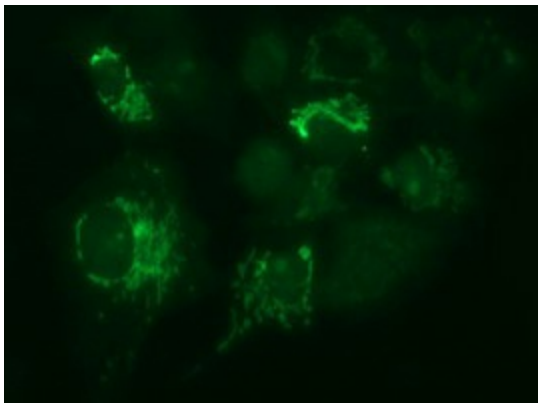
**Protein Pathways:**

Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

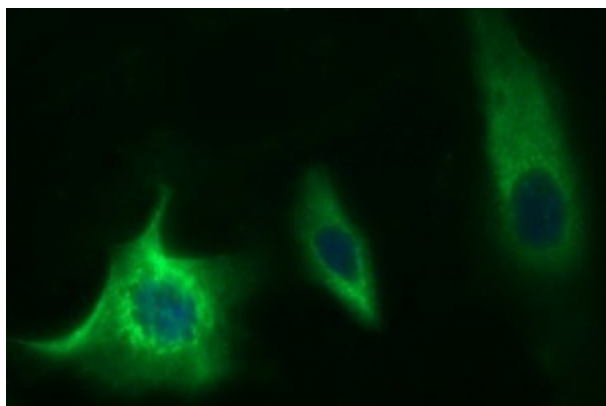
**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MUT (Cat# [RC201972], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MUT (Cat# [TA506873]). Positive lysates [LY400099] (100ug) and [LC400099] (20ug) can be purchased separately from OriGene.



Anti-MUT mouse monoclonal antibody ([TA506873]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MUT ([RC201972]).



Immunofluorescent staining of HeLa cells using anti-MUT mouse monoclonal antibody ([TA506873]) at 1:100 dilution.