ARG59014
anti-Methylmalonyl-CoA mutase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Methylmalonyl-CoA mutase
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Methylmalonyl-CoA mutase
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 33-65 of Human Methylmalonyl-CoA mutase (LHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPE).
Conjugation	Un-conjugated
Alternate Names	Methylmalonyl-CoA isomerase; MCM; EC 5.4.99.2; Methylmalonyl-CoA mutase, mitochondrial

Application Instructions

Application table

Application	Dilution
FACS	1:150 - 1:500
ICC/IF	1:200 - 1:1000
IHC-P	0.5 - 1 µg/ml
WB	0.1 - 0.5 µg/ml

Application Note

IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

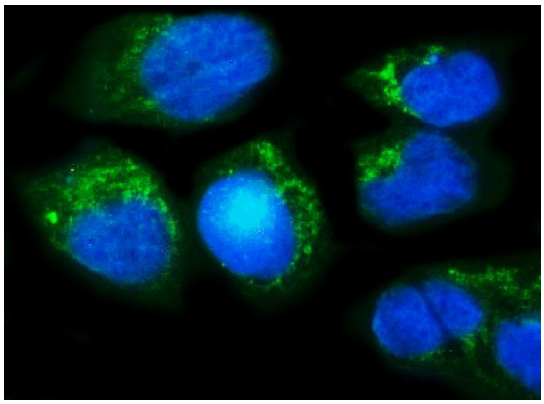
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

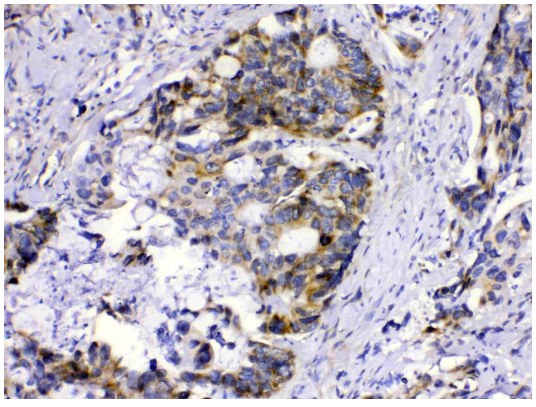
Gene Symbol	MUT
Gene Full Name	methylmalonyl CoA mutase
Background	This gene encodes the mitochondrial enzyme methylmalonyl Coenzyme A mutase. In humans, the product of this gene is a vitamin B12-dependent enzyme which catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA, while in other species this enzyme may have different functions. Mutations in this gene may lead to various types of methylmalonic aciduria. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	83 kDa
Cellular Localization	Mitochondrion matrix. [UniProt]

Images



ARG59014 anti-Methylmalonyl-CoA mutase antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.

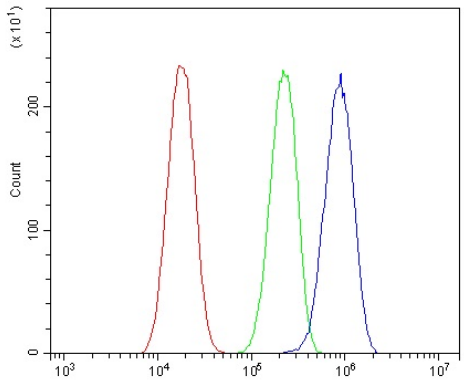


ARG59014 anti-Methylmalonyl-CoA mutase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intetsinal cancer tissue stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody at 1 µg/ml dilution.

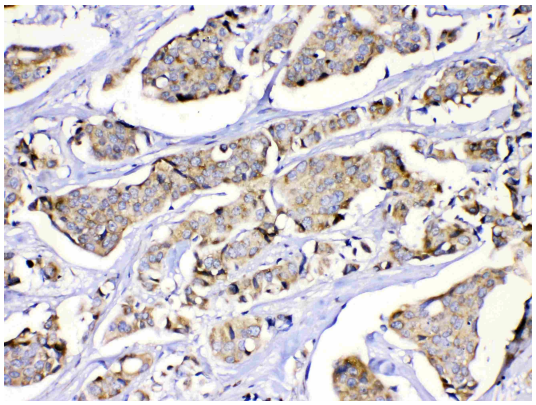
ARG59014 anti-Methylmalonyl-CoA mutase antibody WB image

Western blot: Rat kidney and 22RV1 lysates stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody at 0.5 µg/ml dilution.



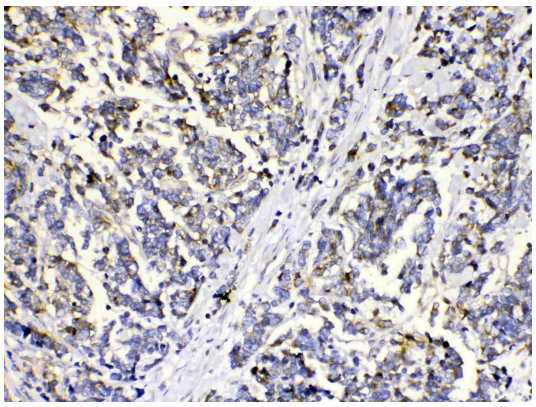
ARG59014 anti-Methylmalonyl-CoA mutase antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and then stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody (blue) at 1 µg/10^6 cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59014 anti-Methylmalonyl-CoA mutase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody at 1 µg/ml dilution.



ARG59014 anti-Methylmalonyl-CoA mutase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue stained with ARG59014 anti-Methylmalonyl-CoA mutase antibody at 1 µg/ml dilution.