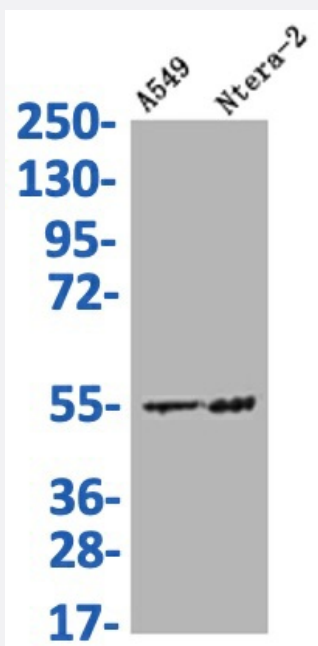


RecomAb™

HMGCS2 recombinant monoclonal antibody, clone 19C11

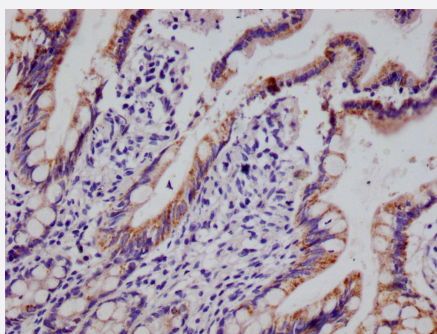
Catalog # RAB07621 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: A549 whole cell lysate; Lane 2: Ntera-2 whole cell lysate.



Immunohistochemistry

Immunohistochemistry image of HMGCS2 recombinant monoclonal antibody, clone 19C11 diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica Bond™ system.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HMGCS2.
Antibody Species	Rabbit

Immunogen	Original antibody is raised against a synthetic peptide corresponding to human HMGCS2.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry(1:50-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: A549 whole cell lysate; Lane 2: Ntera-2 whole cell lysate.

- Immunohistochemistry

Immunohistochemistry image of HMGCS2 recombinant monoclonal antibody, clone 19C11 diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HMGCS2

Entrez GeneID	3158
Protein Accession#	P54868
Gene Name	HMGCS2
Gene Alias	-
Gene Description	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)

Omim ID [600234 605911](#)

Gene Ontology [Hyperlink](#)

Gene Summary Mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase (HMGCS2; EC 2.3.3.10) mediates the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for brain, heart, kidney, and other organs during times of carbohydrate deprivation such as fasting (Robinson and Williamson, 1980 [PubMed 6986618]). Also see cytoplasmic HMG-CoA synthase (HMGCS1; MIM 142940), which mediates an early step in cholesterol synthesis.[supplied by OMIM]

Other Designations OTTHUMP00000013928|hydroxymethylglutaryl-CoA synthase 2

Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Synthesis and degradation of ketone bodies](#)
- [Terpenoid backbone biosynthesis](#)
- [Valine](#)

Disease

- [Alzheimer disease](#)
- [Arthritis](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)