DNAxPAb | Hard-to-Find Antibody

HMGCS2 DNAxPab

Catalog # H00003158-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human HMGCS2 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILALEVYFPAQ YVDQTDLEKYNNVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLMERIQLPWDSVGRLEVG TETIIDKSKAVKTVLMELFQDSGNTDIEGIDTTNACYGGTASLFNAANWMESSSWDGRYAMVVCG DIAVYPSGNARPTGGAGAVAMLIGPKAPLALERGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQC YLRALDRCYTSYRKKIQNQWKQAGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSD TQTSLYKGLEAFGGLKLEDTYTNKDLDKALLKASQDMFDKKTKASLYLSTHNGNMYTSSLYGCLA SLLSHHSAQELAGSRIGAFSYGSGLAASFFSFRVSQDAAPGSPLDKLVSSTSDLPKRLASRKCV SPEEFTEIMNQREQFYHKVNFSPPGDTNSLFPGTWYLERVDEQHRRKYARRPV
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — HMGCS2

Entrez GeneID	3158
GeneBank Accession#	NM_005518.2
Protein Accession#	NP_005509.1
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 firs t 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; MI M 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