

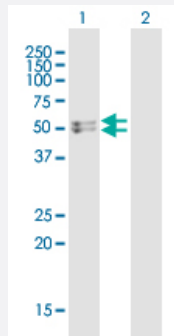
MaxPab®

HMGCS2 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00003158-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of HMGCS2 expression in transfected 293T cell line ([H00003158-T01](#)) by HMGCS2 MaxPab polyclonal antibody.

Lane 1: HMGCS2 transfected lysate(55.88 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human HMGCS2 protein.
Immunogen	HMGCS2 (NP_005509.1, 1 a.a. ~ 508 a.a) full-length human protein.
Sequence	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILALEVYFPAQ YVDQTDLEKYNNVEAGKYTVGLGQTRMGFCVQEDINSLCLTVVQRLMERIQLPWDSVGRLEV TETIDKSKAVKTVLMELFQDSGNTDIEGIDTTNACYGGTASLFNAANWMESSWDGRYAMVVC DIAVYPSGNARPTGGAGAVAMLIGPKAPLALERGLRGTHMENVYDFYKPNLASEYPVDGKLSIQ YLRALDRCYTSYRKKIQNQWKQAGSDRPFLLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASS TQTSLYKGLEAFGGLKLEDITYTNKDLKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLA SLLSHHSAQELAGSRIGAFSYGSGLAASFFSFRVSQDAAPGSPDLKLVSTSDLPKRLASRKCV SPEEFTEIMNQREQFYHKVNFSPPGDNTSLFPGTWYLERVDEQHRRKYARRPV
Host	Mouse
Reactivity	Human
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.

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[Protocol Download](#)

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 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](#)
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- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
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