HLCS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLCS, Polyclonal Antibody
Full Product Name	HLCS Antibody, HRP conjugated
Product Gene Name	anti-HLCS antibody
Product Synonym Names	Biotin--protein ligase; Biotin apo-protein ligase; Biotin--[methylmalonyl-CoA-carboxytransferase] ligase; Biotin--[propionyl-CoA-carboxylase [ATP-hydrolyzing]] ligase; Holocarboxylase synthetase; HCS; Biotin--[methylcrotonoyl-CoA-carboxylase] ligase; Biotin--[acetyl-CoA-carboxylase] ligase; HLCS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: HLCS (MBS7109851) HRP Conjugated Antibody: HLCS (MBS7109852)
Molecular Weight	80,760 Da
OMIM	D23672 mRNA
3D Structure	ModBase 3D Structure for P50747
Immunogen	Recombinant Human Biotin--protein ligase protein (603-714AA)
Conjugation	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-HLCS antibody	Cancer; Metabolism; Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HLCS antibody	ELISA (EIA)
Related Product Information for anti-HLCS antibody	Post-translational modification of specific protein by attachment of biotin. Acts on various carboxylases such as acetyl-CoA-carboxylase, pyruvate carboxylase, propionyl CoA carboxylase, and 3-methylcrotonyl CoA carboxylase.
Other Notes	Small volumes of anti-HLCS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HLCS purchase	MBS7109852 is an antibody targeting HLCS. Also known as HLCS Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLCS. It may not necessarily be applicable to this product.

NCBI GI #	46255045
NCBI GeneID	3141
NCBI Accession #	NP_000402.3
UniProt Primary Accession #	P50747
UniProt Secondary Accession #	Q99451; B2RAH1; D3DSG6
UniProt Related Accession #	P50747
GenBank Nucleotide #	NM_000411.7
NCBI Official Full Name	biotin--protein ligase isoform 1
NCBI Official Synonym Full Names	holocarboxylase synthetase
NCBI Official Symbol	HLCS
NCBI Official Synonym Symbols	HCS
UniProt Protein Name	Biotin--protein ligase
UniProt Synonym Protein Names	Biotin apo-protein ligaseIncluding the following 4 domains:Biotin--[methylmalonyl-CoA-carboxytransferase] ligase (EC:6.3.4.9)Biotin--[propionyl-CoA-carboxylase [ATP-hydrolyzing]] ligase (EC:6.3.4.10)Alternative name(s):Holocarboxylase synthetase; HCS
Protein Family	Biotin--protein ligase
UniProt Gene Name	HLCS
UniProt Synonym Gene Names	HCS
NCBI Protein Information	biotin--protein ligase
NCBI Summary for HLCS	This gene encodes an enzyme that catalyzes the binding of biotin to carboxylases and histones. The protein plays an important role in gluconeogenesis, fatty acid synthesis and branched chain amino acid catabolism. Defects in this gene are the cause of holocarboxylase synthetase deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.[provided by RefSeq, Jun 2011]
Research Articles on HLCS	**1.** The function of HCS and biotin in metabolism and human disease, a putative role for the enzyme in histone biotinylation, and its participation as a nuclear factor in chromatin dynamics is discussed.
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