HLCS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLCS, Polyclonal Antibody
Full Product Name	HLCS (Biotin-protein Ligase, Biotin Apo-protein Ligase, Biotin-[methylmalonyl-CoA-carboxytransferase] Ligase, Biotin-[propionyl-CoA-carboxylase [ATP
Product Gene Name	anti-HLCS antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HLCS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	80,760 Da
OMIM	phenotype 609018
3D Structure	ModBase 3D Structure for P50747
Immunogen	Full length human HLCS, aa1-726 (NP_000402.3).
Immunogen Sequence	MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMEHVGRDDPKALGEEPKQRRGSASGSEPAGDSDRGGGPVEH
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-HLCS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-HLCS antibody	Western Blot (WB)
Application Notes for anti-HLCS antibody	Applications are based on unconjugated antibody.
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 carbo

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 necess
Searchable Terms for HLCS purchase	MBS6381328 is an antibody targeting HLCS. Also known as HLCS (Biotin-protein Ligase, Biotin Apo-protein Ligase, Biotin-[methylmalonyl-CoA-carbox

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_000411.4
NCBI Official Full Name	biotin--protein ligase
NCBI Official Synonym Full Names	holocarboxylase synthetase (biotin-(proprionyl-CoA-carboxylase (ATP-hydrolysing)) ligase)
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
UniProt Entry Name	BPL1_HUMAN
NCBI Protein Information	biotin--protein ligase; biotin apo-protein ligase; biotin--[acetyl-CoA-carboxylase] ligase; biotin--[methylcrotonoyl-CoA-carboxylase] ligase; biotin--[methylmalonyl-CoA-carboxytransferase] ligase; holocarboxylase synthetase (biotin-(proprionyl-Coenzyme A-

UniProt Comments for HLCS	HLCS: 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. Defects in HLCS are the cause of holocarboxylase synthetase deficiency (HLCS deficiency); also known as biotin-responsive multiple carboxylase deficiency. HLCS deficiency is a neonatal form of multiple carboxylase deficiency, an autosomal recessive disorder characterized by metabolic ketoacidosis, hyperammonemia, excretion of abnormal organic acid metabolites and dermatitis. Clinical and biochemical symptoms improve dramatically with administration of biotin. Belongs to the biotin--protein ligase family. Protein type: EC 6.3.4.11; Mitochondrial; EC 6.3.4.15; EC 6.3.4.9; EC 6.3.4.10; Cofactor and Vitamin Metabolism - biotin; Ligase Chromosomal Location of Human Ortholog: 21q22.13 Cellular Component: nuclear lamina; nuclear matrix; mitochondrion; cytoplasm; chromatin; cytosol Molecular Function: protein binding; biotin-[propionyl-CoA-carboxylase (ATP-hydrolyzing)] ligase activity; enzyme binding; protein homodimerization activity; biotin-[acetyl-CoA-carboxylase] ligase activity; biotin-[methylmalonyl-CoA-carboxytransferase] ligase activity; biotin-protein ligase activity; biotin binding; ATP binding; biotin-[methylcrotonoyl-CoA-carboxylase] ligase activity Biological Process: cell proliferation; vitamin metabolic process; histone modification; protein amino acid biotinylation; water-soluble vitamin metabolic process; biotin metabolic process Disease: Holocarboxylase Synthetase Deficiency
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