CLPS Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CLPS, Monoclonal Antibody
Full Product Name	CLPS (Colipase, Pancreatic) (MaxLight 750)
Product Gene Name	anti-CLPS antibody
Product Synonym Names	Colipase; Pancreatic
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	8A8
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes CLPS.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	12.5 kDa (118aa) confirmed by MALDI-TOF
OMIM	J02883 mRNA
3D Structure	ModBase 3D Structure for P04118
Immunogen	CLPS (NP_001823, 23aa-112aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GIIINLENGELCMNSAQCKSNCCQHSSALGLARCTSMASENSECSVKTLYGIYYKCPCERGLTCEGDKTIVGSITNTNFGICHDAGRSKQ
Conjugate	MaxLight750
Product Categories/Family for anti-CLPS antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-CLPS antibody	FLISA, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CLPS antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CLPS antibody	The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. [provided by RefSeq]
Other Notes	Small volumes of anti-CLPS 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 CLPS purchase	MBS6237706 is an antibody targeting CLPS. Also known as CLPS (Colipase, Pancreatic) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	4502895
NCBI GeneID	1208
NCBI Accession #	NP_001823
UniProt Primary Accession #	P04118
UniProt Secondary Accession #	Q5T9G7; Q5U809
UniProt Related Accession #	P04118
GenBank Nucleotide #	NM_001832.3
NCBI Official Full Name	colipase isoform 1 preproprotein
NCBI Official Synonym Full Names	colipase
NCBI Official Symbol	CLPS
UniProt Protein Name	Colipase
Protein Family	ATP-dependent Clp protease adapter protein
UniProt Gene Name	CLPS
NCBI Protein Information	colipase
NCBI Summary for CLPS	The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for CLPS	Colipase is a cofactor of pancreatic lipase. It allows the lipase to anchor itself to the lipid-water interface. Without colipase the enzyme is washed off by bile salts, which have an inhibitory effect on the lipase.
Research Articles on CLPS	**1.** Low CLPS expression is associated with pancreatic cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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