ACYP2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ACYP2, Monoclonal Antibody
Full Product Name	ACYP2 (Acylphosphatase 2, Acylphosphatase-2, Acylphosphatase, Muscle Type Isozyme, Acylphosphate Phosphohydrolase 2, ACYP) (MaxLight 490)
Product Gene Name	anti-ACYP2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2H7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ACYP2.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	102595
3D Structure	ModBase 3D Structure for P14621
Immunogen	Partial recombinant corresponding to aa1-98 from human ACYP2 (NP_612457) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSTAQSLKSVDYEVFGRVQGVCFRMYTEDEARKIGVVGWVKNTSKGTVTGQVQGPEDKVNSMKSWLSKVGSPSSRIDRTNFSNEKTISKLEYSNFSIR
Conjugate	MaxLight490
Product Categories/Family for anti-ACYP2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-ACYP2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-ACYP2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ACYP2 antibody	MBS6199409 is an antibody targeting ACYP2. Also known as ACYP2 (Acylphosphatase 2, Acylphosphatase-2, Acylphosphatase, Muscle Type Isozyme, Acylphosphate Phosphohydrolase 2, ACYP) (MaxLight 490). Reactive in Human. Host: Mouse. An acylphosphate + H2O = a carboxylate + phosphate.

Other Notes	Small volumes of anti-ACYP2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACYP2. It may not necessarily be applicable to this product.

NCBI GI #	20149322
NCBI GeneID	98
NCBI Accession #	NP_612457
UniProt Primary Accession #	P14621
UniProt Related Accession #	P14621
GenBank Nucleotide #	NM_138448
NCBI Official Full Name	acylphosphatase-2 isoform 3
NCBI Official Synonym Full Names	acylphosphatase 2
NCBI Official Symbol	ACYP2
NCBI Official Synonym Symbols	ACYM; ACYP
UniProt Protein Name	Acylphosphatase-2
UniProt Synonym Protein Names	Acylphosphatase, muscle type isozyme; Acylphosphate phosphohydrolase 2
Protein Family	Acylphosphatase
UniProt Gene Name	ACYP2
UniProt Synonym Gene Names	ACYP
NCBI Protein Information	acylphosphatase-2
NCBI Summary for ACYP2	Acylphosphatase can hydrolyze the phosphoenzyme intermediate of different membrane pumps, particularly the Ca2+/Mg2+-ATPase from sarcoplasmic reticulum of skeletal muscle. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase on the basis of their tissue localization. This gene encodes the muscle-type isoform (MT). An increase of the MT isoform is associated with muscle differentiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]
UniProt Comments for ACYP2	Its physiological role is not yet clear.
Research Articles on ACYP2	**1.** Traditional genome-wide association studies have identified single-nucleotide polymorphisms in ACYP2 and WFS1 associated with cisplatin-induced hearing loss.
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