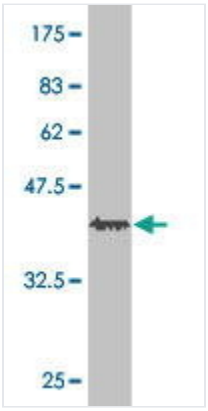
PPARGC1A Antibody – Mouse Monoclonal

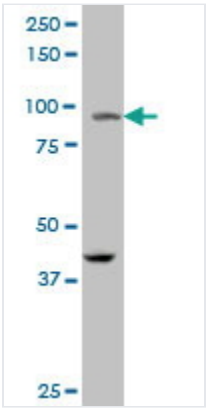
PRODUCT OVERVIEW

Product Name	PPARGC1A, Monoclonal Antibody
Full Product Name	PPARGC1A (Peroxisome Proliferator-activated Receptor gamma Coactivator 1-alpha, PGC-1-alpha, PPAR-gamma Coactivator 1-alpha, PPARGC-1-a Effect Modulator 6, LEM6, PGC1, PGC1A, PPARGC1) (PE)
Product Gene Name	anti-PPARGC1A antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2F9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PPARGC1A.
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 to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centr original vial prior to removing the cap.
Molecular Weight	Predicted: 88 kDa Observed: 99 kDa
OMIM	604517
3D Structure	ModBase 3D Structure for Q9UBK2
Immunogen	Partial recombinant corresponding to aa689-798 from human PPARGC1A (NP_037393) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TRTELRDRFEVFGEIEECTVNLRDDGDSYGFITYRYTCDAFAALENGYTLRRSNETDFELYFCGRKQFFKSNYADLDSNSDDFDPASTKSKYDSLDFDSLL
Conjugate	PE
Product Categories/Family for anti-PPARGC1A antibody	Antibodies; Obesity Proteins
Applications Tested/Suitable for anti-PPARGC1A antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PPARGC1A antibody	Applications are based on unconjugated antibody.

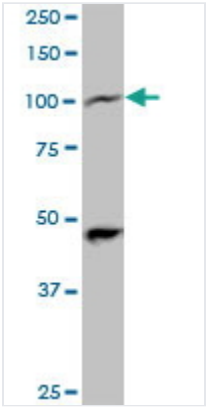
Related Product Information for anti-PPARGC1A antibody	PGC1 beta (peroxisome proliferator-activated receptor gamma coactivator 1 beta), also known as PPARGC1B, is an 110kD protein that belongs to a fa coactivators. It coactivates nuclear receptors such as ERRalpha, upregulating expression of proteins that promote mitochondrial fusion and control bas mitochondrial biogenesis. N- and C-terminal alternate sequences, or deletion of aa156-194, produce isoforms of 984, 1017, 1023 (most common) and 1 Human PGC1 beta aa315-420, which is common to all isoforms, shares 79% and 76% aa identity with mouse and rat PGC1 beta, respectively.
Other Notes	Small volumes of anti-PPARGC1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If n 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 add fee may apply.
Searchable Terms for PPARGC1A purchase	MBS6159593 is an antibody targeting PPARGC1A. Also known as PPARGC1A (Peroxisome Proliferator-activated Receptor gamma Coactivator 1-alph alpha, PPAR-gamma Coactivator 1-alpha, PPARGC-1-alpha, Ligand Effect Modulator 6, LEM6, PGC1, PGC1A, PPARGC1) (PE). Reactive in Human.



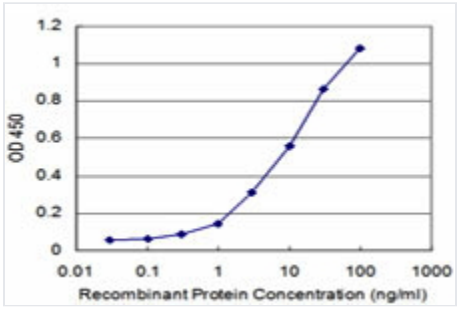
Western Blot (WB) of anti-PPARGC1A antibody
Western Blot detection against Immunogen (38.21kD).



Western Blot (WB) of anti-PPARGC1A antibody
PPARGC1A monoclonal antibody Western Blot analysis of PPARGC1A expression in U-2 OS.



Western Blot (WB) of anti-PPARGC1A antibody
PPARGC1A monoclonal antibody Western Blot analysis of PPARGC1A expression in A-431.



Testing Data of anti-PPARGC1A antibody
Detection limit for recombinant GST tagged PPARGC1A is ~1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPARGC1A. It may not necessarily be applicable to this product.

NCBI GI #	7019499
NCBI GeneID	10891
NCBI Accession #	NP_037393
UniProt Primary Accession #	Q9UBK2
UniProt Secondary Accession #	Q3LIG1; Q4W5M7; Q9UN32; B7Z406; G8DM16; I3RTT5; I3RTT6; I3RTT7; I3RTT8; I3RTT9
UniProt Related Accession #	Q9UBK2
GenBank Nucleotide #	NM_013261

NCBI Official Full Name	peroxisome proliferator-activated receptor gamma coactivator 1-alpha
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
NCBI Official Symbol	PPARGC1A
NCBI Official Synonym Symbols	LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha)
UniProt Protein Name	Peroxisome proliferator-activated receptor gamma coactivator 1-alpha
UniProt Synonym Protein Names	Ligand effect modulator 6
Protein Family	Peroxisome proliferator-activated receptor gamma coactivator
UniProt Gene Name	PPARGC1A
UniProt Synonym Gene Names	LEM6; PGC1; PGC1A; PPARGC1; PGC-1-alpha; PPAR-gamma coactivator 1-alpha
UniProt Entry Name	PRGC1_HUMAN
NCBI Protein Information	peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC-1-alpha; L-PGC-1alpha; PPARGC-1-alpha; ligand effect modulator-6; PPAR gamma coactivator variant form; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcrip
NCBI Summary for PPARGC1A	The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homoeostasis, and the development of obesity. [provided by RefSeq, Jul 2008]
Research Articles on PPARGC1A	**1.** PGC-1alpha is required for normal parvalbumin-positive interneuron function.
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