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Anti-PGC1 beta PPARGC1B Monoclonal Antibody

Catalog # ABO14596

Product Information

Application	WB, IP
Primary Accession	Q86YN6
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-PGC1 beta PPARGC1B Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

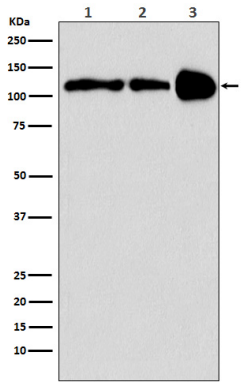
Gene ID	133522
Other Names	Peroxisome proliferator-activated receptor gamma coactivator 1-beta, PGC-1-beta, PPAR-gamma coactivator 1-beta, PPARGC-1-beta, PGC-1-related estrogen receptor alpha coactivator, PPARGC1B, PERC, PGC1, PGC1B, PPARGC1
Calculated MW	113222
Application Details	WB 1:500-1:2000 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AEOI-16
Immunogen	A synthesized peptide derived from human PGC1 beta
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	PPARGC1B
Synonyms	PERC, PGC1, PGC1B, PPARGC1

Function	Plays a role of stimulator of transcription factors and nuclear receptors activities. Activates transcriptional activity of estrogen receptor alpha, nuclear respiratory factor 1 (NRF1) and glucocorticoid receptor in the presence of glucocorticoids. May play a role in constitutive non-adrenergic-mediated mitochondrial biogenesis as suggested by increased basal oxygen consumption and mitochondrial number when overexpressed. May be involved in fat oxidation and non- oxidative glucose metabolism and in the regulation of energy expenditure. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner.
Cellular Location	Nucleus.
Tissue Location	Ubiquitous with higher expression in heart, brain and skeletal muscle.

Images



Western blot analysis of PGC1 beta expression in (1) HeLa cell lysate; (2) Mouse spleen lysate; (3) Rat spleen lysate.

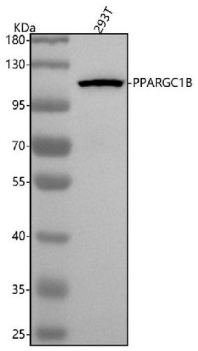


Figure 1. Western blot analysis of PPARGC1B using anti-PPARGC1B antibody (M02933).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human 293T whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PPARGC1B antigen affinity purified monoclonal antibody (Catalog # M02933) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PPARGC1B at approximately 113 kDa. The expected band size for PPARGC1B is at 113 kDa.