

Basic Information

Product Name	Anti-PGC1 Beta/PPARGC1B Antibody	
Gene Name	PPARGC1B	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse	
Tested Application	WB, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human PGC1 beta/PPARGC1B recombinant protein (Position: A8-P375). Human PPARGC1B shares 74.3% and 74.2% amino acid (aa) sequence identity with mouse and rat PPARGC1B, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	113 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

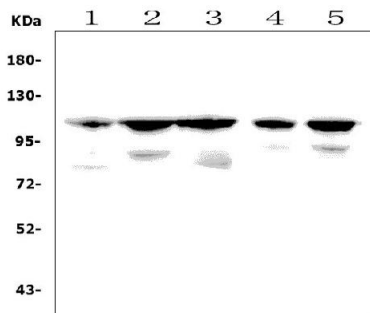
Background Information

Peroxisome proliferator-activated receptor gamma coactivator 1-beta is a protein that in humans is encoded by the PPARGC1B gene. It is mapped to 5q32. The protein encoded by this gene stimulates the activity of several transcription factors and nuclear receptors, including estrogen receptor alpha, nuclear respiratory factor 1, and glucocorticoid receptor. The encoded protein may be involved in fat oxidation, non-oxidative glucose metabolism, and the regulation of energy expenditure. This protein is downregulated in prediabetic and type 2 diabetes mellitus patients. Certain allelic variations in this gene increase the risk of the development of obesity. Three transcript variants encoding different isoforms have been found for this gene.

Reference

Anti-PGC1 Beta/PPARGC1B Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of PGC1 Beta/PPARGC1B using anti-PGC1

Beta/PPARGC1B antibody (A02933-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Caco-2 whole cell lysates,

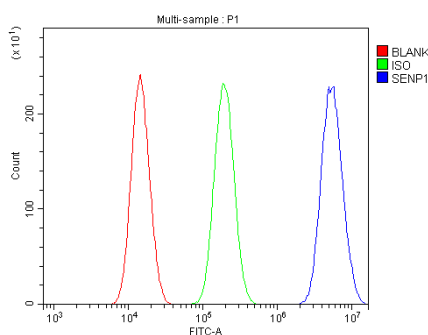
Lane 2: human HEK293 whole cell lysates,

Lane 3: human U2OS whole cell lysates,

Lane 4: human MDA-MB-453 whole cell lysates,

Lane 5: human K562 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PGC1 Beta/PPARGC1B antigen affinity purified polyclonal antibody (A02933-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PGC1 Beta/PPARGC1B at approximately 113 kDa. The expected band size for PGC1 Beta/PPARGC1B is at 113 kDa.



Flow Cytometry analysis of U937 cells using anti-PGC1 Beta/PPARGC1B antibody (A02933-1).

Overlay histogram showing U937 cells stained with A02933-1 (Blue line).

To facilitate intracellular staining, cells were fixed with 4%

paraformaldehyde and permeabilized with permeabilization buffer. The

cells were blocked with 10% normal goat serum. And then incubated with

rabbit anti-PGC1 Beta/PPARGC1B Antibody (A02933-1) at 1:100 dilution

for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG

(BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes

at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100

dilution used under the same conditions. Unlabelled sample without

incubation with primary antibody and secondary antibody (Red line) was

used as a blank control.

Product datasheet

Anti-PGC1 Beta/PPARGC1B Antibody

Catalog Number: A02933-1



antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

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