Product datasheet

Anti-PPAR Gamma/PPARG Antibody

Catalog Number: *BA1693-2*

BOSTER
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Basic Information

Product Name	Anti-PPAR Gamma/PPARG Antibody
Gene Name	PPARG
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PPAR gamma, different from the rat and mouse sequences by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	58 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

The peroxisome proliferator-activated receptors(PPARs) are a group of three nuclear receptor isoforms, PPAR gamma, PPAR alpha, and PPAR delta, encoded by different genes. PPARs are ligand-regulated transcription factors that control gene expression by binding to specific response elements(PPREs) within promoters. PPAR gamma is a transcription factor that has a pivotal role in adipocyte differentiation and expression of adipocyte-specific genes. The PPAR gamma1 and gamma2 isoforms result from alternative splicing and have ligand-dependent and -independent activation domains. PPAR gamma is a member of a family of nuclear receptors/ligand-dependent transcription factors, which bind to hormone response elements on target gene promoters. Ameshima et al.(2003) found that PPAR gamma is abundantly expressed in normal lung tissues, especially in endothelial cells, but that its expression is reduced or absent in the angiogenic plexiform lesions of pulmonary hypertensive lungs and in the vascular lesions of a rat model of severe pulmonary hypertension. And they conclude that fluid shear stress decreases the expression of PPARgamma in endothelial cells and that loss of PPARgamma expression characterizes an abnormal, proliferating, apoptosis-resistant endothelial cell phenotype.

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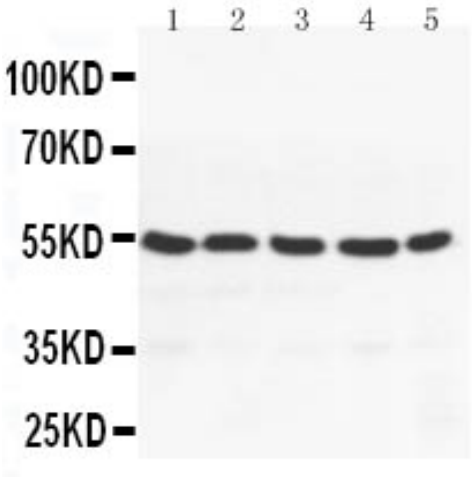
Reference

Anti-PPAR Gamma/PPARG Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of PPAR Gamma/PPARG using anti-PPAR Gamma/PPARG antibody (BA1693-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: MM453 whole cell lysates,
Lane 2: MM231 whole cell lysates,
Lane 3: HELA whole cell lysates,
Lane 4: JURKAT whole cell lysates,
Lane 5: HT1080 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PPAR Gamma/PPARG antigen affinity purified polyclonal antibody (BA1693-2) 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 PPAR Gamma/PPARG at approximately 58 kDa. The expected band size for PPAR Gamma/PPARG is at 58 kDa.