

Basic Information

Product Name	Anti-PPAR Gamma/PPARG Antibody
Gene Name	PPARG
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM
Contents	500 ug/ml antibody with PBS , 0.02% Na ₂ S ₂ O ₃ , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PPAR gamma (207-248aa AIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRALAKHLYD), identical to the related mouse and rat sequences.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow cytometry (FCM):1-3 µg/1x10 ⁶ cells

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C 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. 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 it is concluded 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.

Reference

Anti-PPAR Gamma/PPARG Antibody被引用在5文献中。

Selected Validation Data

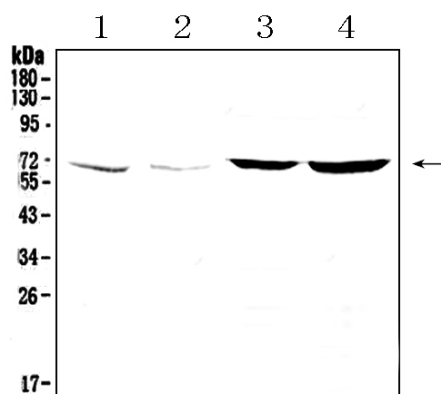


Figure 1. Western blot analysis of PPAR gamma using anti-PPAR gamma antibody (A00449-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat lung tissue lysate,

Lane 2: mouse lung tissue lysate,

Lane 3: human A549 whole cell lysate,

Lane 4: human Hela whole cell lysate.

probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for PPAR gamma at approximately 67KD. The expected band size for PPAR gamma is at 58KD.