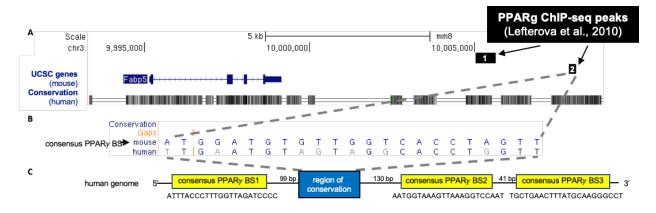


Suppl. Fig. 1 Segregation of samples into two groups based on *FABP5* mRNA levels from RNA-seq data available in the NCBI Gene Expression Omnibus (GEO Accession #GSE57148) from a study examining lung tissues of healthy and COPD patients [27]. **A.** Expression levels of *FABP5* in all samples (left) indicating that overall *FABP5* is decreased in COPD and in selected 10 lowest (FABP5^{low}) and 10 highest (FABP5^{high}) (right) as FPKM: fragments per kilobase of exon per million fragments mapped between subjects with normal lung function (NOR) and COPD subjects. ** p<0.01. **B.** Principle Components Analysis (PCA) of gene transcription indicates

significant separation by FABP5 expression level. **C.** Gene expression heatmap of PPAR signaling pathway genes from FABP5^{high} and FABP5^{low} human lung samples identified by KEGG pathway analysis.



Suppl. Fig. 2 Evidence for direct transcriptional regulation of FABP5 by PPARγ. A. PPARγ
ChIP-seq peaks, shown as black boxes, were identified within 10 kb downstream of the *Fabp5*coding region. B. Conservation of PPARγ ChIP-seq peak 2 between mouse and human genomes.
C. Three PPARγ binding sites (BS, indicated by yellow boxes) were found within ~200 bp of the region of conservation (indicated by blue box) between mouse and human genomes.

Suppl. Table 1. Antibody list used for Western blot and Immunol	fluorescence.
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Antibody	Application	Source	Identifier
Monoclonal anti-Flag (R) M2-Peroxidase (HRP)	Western blot, primary No secondary needed	Sigma	Cat# A8592
Rabbit anti-Myc-Tag	Western blot, primary	Cell Signaling	Cat# 2272S
Rat anti-Human FABP5/E-FABP	Western blot & Immunofluorescence, primary	R&D	MAB3077
Goat anti-Rabbit HRP	Western blot, secondary	Zymax	Cat# 81-6120
Goat anti-Rat IgG(H+L) HRP	Western blot, secondary	Pierce	Cat# 31470
Goat anti-Mouse Fabp5/e-fabp	Immunofluorescence, primary	R&D	AF1476
Rabbit anti-PPARγ	Immunofluorescence, primary	Cell Signaling	Cat# 2443
Mouse IgG1 anti- CD68	Immunofluorescence, primary	Abcam	ab955
Goat anti-Rabbit IgG, Alexa Fluor 488	Immunofluorescence, secondary	Invitrogen	A-11008
Goat anti-Rat IgG, Alexa Fluor 568	Immunofluorescence, secondary	Invitrogen	A-11077
Rabbit anti-Goat IgG, Alexa Fluor 568	Immunofluorescence, secondary	Invitrogen	A-11079
Donkey anti-Mouse IgG1, Alexa Fluor 647	Immunofluorescence, secondary	Invitrogen	A-32787

Suppl. Table 2. ChIP-qPCR primer sequences.

	Forward Sequence (5' to 3')	Reverse Sequence (3' to 5')
Binding Site 1 (BS1)	AATATTTACCCTTTGGTTAGATCCC	CTTTGTGAAGCCAGCTTTGT
Binding Site 2 (BS2)	GGGAGATGTTTGTTCTAAAGTTAATCC	GTTCAGCAATGAGAAAGAGCAAA
Binding Site 3 (BS3)	GCTCTTTCTCATTGCTGAACTTTAT	CACTCCGGTGACAGTAAGAATG
Positive Control (PC)	GGGTTTGAAGCAAAGGGAAAG	GTCATCCTGCCTCCATTCTT