

#2443 Store at -20°C

# PPAR $\gamma$ (81B8) Rabbit mAb



✓ 100  $\mu$ l  
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID # 5468  
Swiss-Prot Acc. # P37231

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IF-IC Endogenous	H, M, (R)	53, 57 kDa	Rabbit IgG**

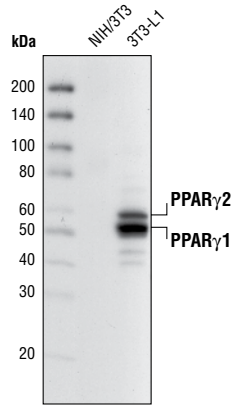
**Background:** Peroxisome proliferator-activated receptor  $\gamma$  (PPAR $\gamma$ ) is a member of the ligand-activated nuclear receptor superfamily and functions as a transcriptional activator (1). PPAR $\gamma$  is preferentially expressed in adipocytes as well as in vascular smooth muscle cells and macrophage (2). Besides its role in mediating adipogenesis and lipid metabolism (2), PPAR $\gamma$  also modulates insulin sensitivity, cell proliferation and inflammation (3). The inhibition of PPAR $\gamma$  transcriptional activity is due to MAP kinase phosphorylation of PPAR $\gamma$  at Ser84 (4,5).

**Specificity/Sensitivity:** PPAR $\gamma$  (81B8) Rabbit mAb detects endogenous levels of total PPAR $\gamma$  protein.

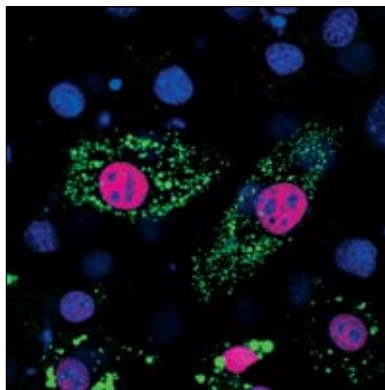
**Source/Purification:** PPAR $\gamma$  (81B8) Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His494 of human PPAR $\gamma$ .

**Background References:**

- (1) Tontonoz, P. et al. (1995) *Curr. Opin. Genet. Dev.* 5, 571–576.
- (2) Rosen, E.D. et al. (1999) *Mol. Cell* 4, 611–617.
- (3) Murphy, G.J. and Holder, J.C. (2000) *Trends Pharmacol. Sci.* 21, 469–474.
- (4) Camp, H.S. and Tafuri, S.R. (1997) *J. Biol. Chem.* 272, 10811–10816.
- (5) Adams, M. et al. (1997) *J. Biol. Chem.* 272, 5128–5132.



Western blot analysis of extracts from NIH/3T3 and 3T3-L1 cells (differentiated 6 days) using PPAR $\gamma$  (81B8) Rabbit mAb.



Confocal immunofluorescent analysis of 3T3-L1 cells, using PPAR $\gamma$  (81B8) Rabbit mAb (red) showing nuclear localization in differentiated cells. Lipid droplets have been labeled with BODIPY 493/503 (green). Blue pseudocolor = DRAQ5<sup>®</sup> #4084 (fluorescent DNA dye).

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-IC)	1:200

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine  
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.