

PPAR γ (D8I3Y) Mouse mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 53, 57	Source/Isotype: Mouse IgG1	UniProt ID: #P37231	Entrez-Gene Id: 5468
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

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

Specificity/Sensitivity

PPAR γ (D8I3Y) Mouse mAb recognizes endogenous levels of total PPAR γ protein.

Species predicted to react based on 100% sequence homology

Rat, Monkey, Chicken, Bovine, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His494 of human PPAR γ protein.

Background

Peroxisome proliferator-activated receptor γ (PPAR γ) is a member of the ligand-activated nuclear receptor superfamily and functions as a transcriptional activator (1). PPAR γ 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 γ also modulates insulin sensitivity, cell proliferation and inflammation (3). PPAR γ transcriptional activity is inhibited by MAP kinase phosphorylation of PPAR γ at Ser84 (4,5).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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