Revision 5

Store at -20C

#2443

PPARγ (81B8) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, ChIP, ChIP-seq	H M	Endogenous	53, 57	Rabbit	#P37231	5468

Product Usage Information

For optimal ChIP and ChIP-seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:100 - 1:200
Chromatin IP	1:100
Chromatin IP-seq	1:100

Storage

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

Specificity/Sensitivity

PPARγ (81B8) Rabbit mAb detects endogenous levels of total PPARγ protein.

Species predicted to react based on 100% sequence homology

Rat

Source / Purification

PPARγ (81B8) Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His494 of human PPARγ.

Background

Peroxisome proliferator-activated receptor γ (PPARγ) is a member of the ligand-activated nuclear receptor superfamily and functions as a transcriptional activator (1). PPARγ 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), PPARγ also modulates insulin sensitivity, cell proliferation and inflammation (3). PPARγ transcriptional activity is inhibited by MAP kinase phosphorylation of PPARγ 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 **IF-IC:** Immunofluorescence (Immunocytochemistry) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

Cross-Reactivity Key

H: Human **M:** Mouse

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