

#2443 Store at -20C

PPAR γ (81B8) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, 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 μ l of antibody and 10 μ g of chromatin (approximately 4×10^6 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
Chromatin IP	1:100
Chromatin IP-seq	1:100

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

Species predicted to react based on 100% sequence homology:

Rat

Source / Purification

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

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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)
ChIP: Chromatin IP **ChIP-seq:** Chromatin IP-seq

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents

Limited Uses

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