

PPAR γ (C26H12) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene ID:
W, IHC-P, IF-IC, ChIP, ChIP-seq	H M	Endogenous	53, 57	Rabbit IgG	#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 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:400 - 1:1600
Immunofluorescence (Immunocytochemistry)	1:50 - 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 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #35264.

Specificity/Sensitivity

PPAR γ (C26H12) Rabbit mAb detects endogenous levels of total PPAR γ protein.

Source / Purification

PPAR γ (C26H12) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide corresponding to residues surrounding Asp69 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

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

Cross-Reactivity Key

H: Human **M:** Mouse

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