| Catalog Number | Product Name | Quantity | Clonality, clone (isotype) | Reactive species | Applications | Reg. Status |
|---|---|---|---|---|---|---|
| 419300 | Mouse anti-human PPARγ common (clone A3409A) | 100 µg | mAb clone A3409A (Ms IgG2a) | Hu, Ms, Rt | WB, ELISA, IP, EMSA, ChIP, IHC | RUO |

# Mouse Anti-Human Peroxisome Proliferator-Activated Receptor γ (γ1, γ2)

## Description

Peroxisome proliferator-activated receptor γ (PPARg; PPARγ; NR1C3) is a member of the orphan nuclear receptor family. Oxidized metabolites of linoleic acid, 9- hydroxyctadienoic acid (9-HODE) and 13-HODE are activators and ligands of PPARγ. PPARγ is expressed in white adipose tissue, intestinal mucosa, colon, spleen, monocytes, macrophages, retina, cartilage, osteoclasts and skeletal muscle. PPARγ plays important roles in lipid and glucose metabolism, and has been implicated in obesity-related metabolic diseases such as hyperlipidemia, insulin resistance, and coronary artery disease. Three members were called PPARα, β, and γ. Three N-terminal isoforms, called γ1, γ2 and γ3, are known to arise by alternative splicing and promoter usage from the PPARγ gene. RXR is an obligate partner for PPAR.

## Nomenclature

NR1C3

## Genbank

L40904

## Origin

Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human PPARγ1 (3-108 aa).

## Specificity

This antibody specifically recognizes human PPARγ1 and γ2 and cross reacts with mouse and rat PPARγ1 and γ2. This antibody does not recognize human PPARα and δ.

## Purification

Ammonium sulfate fractionation

## Formulation

Concentration is 1 mg/mL in physiological saline with 0.1% sodium azide as a preservative.

| Application | Recommended Concentration* |
|---|---|
| Western Blot | 1 µg/mL |
| Non reducing Western Blot | Not tested |
| ELISA | 0.012 µg/mL |
| Immunoprecipitation | Determine by use |
| Electrophoretic Mobility Shift Assay | Determine by use |
| Chromatin Immunoprecipitation | Determine by use |
| Immunohistochemistry | 10 µg/mL |

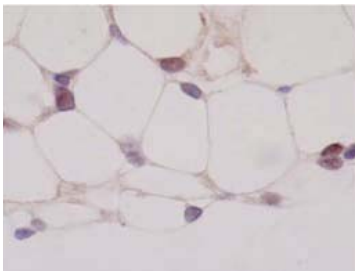
*In order to obtain the best results, optimal working dilutions should be determined by each individual user.

## Storage

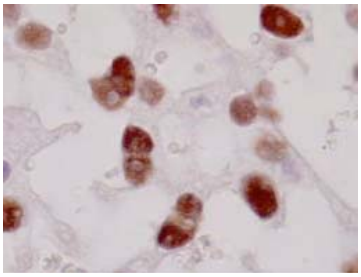
Store at 2 - 8ºC up to one month. For long-term storage, the solution may be frozen at –20ºC in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

## Reference

Tanaka T, et al., *J Atheroscler Thromb* 9(5): 233-241, 2002.



Rat Adipose cell



Rat Placenta

## Related Products

| *Product* | *Conjugate* | *Cat. No.* |
|---|---|---|
| Protein A | Sepharose 4B | 10-1041 |
| rec-Protein G | Sepharose 4B | 10-1241 |
| ZyMAX™ Goat anti-rabbit IgG | Unconjugated | 81-6100 |
| ZyMAX™ Goat anti-mouse IgG | Unconjugated | 81-6500 |

## Secondary Antibody Conjugates

| *Conjugate* | *Goat anti-rabbit IgG (H+L)* | *Goat anti-mouse IgG (H+L)* | *Ex/Em** | *Fluorescence similar to--* |
|---|---|---|---|---|
| Alexa Fluor® 488 | A11008 | A11001 | 495/519 | FITC |
| Alexa Fluor® 555 | A21428 | A21422 | 555/565 | Cy3 |
| Alexa Fluor® 594 | A11012 | A11005 | 590/617 | Texas Red® |
| Alexa Fluor® 647 | A21244 | A21235 | 650/668 | Cy5 |
| HRP | 81-6120 | 81-6520 | NA** | NA |
| AP | 81-6122 | 81-6522 | NA | NA |
| Biotin | B2770 | B2763 | NA | NA |

*Excitation/emission (nm); **Not applicable

For additional secondary antibody conjugates, visit www.invitrogen.com/antibodies

**For Research Use Only**

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