

Anti human PPAR gamma2 mouse monoclonal antibody

PPAR gamma2: Peroxisome Proliferator-Activated Receptor gamma2

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| Code No | PP-K8450B-00 |
| Clone No. | K8450B |
| Lot. | A-2 |
| Concentration | 1 mg/mL |
| Volume | 100 uL |
| Ig Class | G2a |

Description Peroxisome proliferator-activated receptor gamma (PPAR γ ; NR1C3) is a member of orphan nuclear receptor. Oxidized metabolites of linoleic acid, 9-hydroxyoctadecenoic acid (9-HODE) and 13-HODE are activators and ligands of PPAR γ . PPAR γ is expressed in white adipose tissue, intestinal mucosa, colon, spleen, monocytes, macrophages, retina, cartilage, osteoclast and skeletal muscle. PPAR γ plays important roles in lipid and glucose metabolism, and have been implicated in obesity-related metabolic diseases such as hyperlipidemia, insulin resistance, and coronary artery disease. Three members were called PPAR α , β , γ . Three N-terminal isoforms, called g1, g2 and g3, are known to arise by alternative splicing and promoter usage from the PPAR γ gene. RXR is an obligate partner for PPAR.

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| Nomenclature | NR1C3 |
| Genbank | U79012 |

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 PPAR gamma2 (2-28 aa).

Specificity This antibody specifically recognizes human PPAR gamma2 and cross reacts with mouse PPAR gamma 2. This antibody does not recognize human PPAR gamma1, alpha and delta. Not yet tested in other species.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

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

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| Western Blot | 4 ug/mL |
| Non reducing Western Blot | 4 ug/mL |
| ELISA | 0.1 ug/mL |
| Immunoprecipitation | Not yet tested |
| Supershift Assay | 100 ug/mL |
| Chromatin immunoprecipitation | Not yet tested |
| Immunohistochemistry | Not yet tested |

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen 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. 2002; 9 (5) : 233-42

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

FOR RESEARCH ONLY. NOT FOR USE IN HUMANS.

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MADE IN JAPAN
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