

Anti human RAR alpha mouse monoclonal antibody

RAR alpha: Retinoic Acid Receptor alpha

Code No PP-H1920-00

Clone No. H1920

Lot. A-2

Concentration 1 mg/mL

Volume 100 uL

Ig Class G1

Description Retinoic acid receptor alpha (RARα; NR1B1) is closely related to TR. RARs bind to two retinoids, all-trans retinoic acid and 9-cis retinoic acid. RARα is expressed in adult skin, lung. RARα is redundantly involved in vertebrates in the pleiotropic control of embryonic patterning and organogenesis, cell proliferation, differentiation and apoptosis, as well as homeostatic control. The specific chromosomal translocation found in acute promyelocytic leukemia (APL), fuses the RARα gene to a gene called promyelocytes (PML).

Nomenclature NR1B1

Genbank X06614

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 RAR alpha (1-30 aa).

Specificity This antibody specifically recognizes human RAR alpha but does not recognize human RAR beta and gamma. Not yet tested in other species.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% Na₃N as a preservative.

Application / Recommended Concentration

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

Western Blot 1 ug/mL

Non reducing Western Blot 3 ug/mL

ELISA 0.2 ug/mL

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

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 Qin J, *et al.* Dev Dyn. 2007; 236(3): 810-20

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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