



Product Information Sheet

Polyclonal Anti-Phosphomevalonate kinase, **PMVK** (Magnetic Bead Conjugate)

Catalogue No. PA1067-M

Lot No. 07B01

Ig type: rabbit IgG1

Size: 100µg/Vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation (IP)

Immunogen

A synthetic peptide corresponding to a sequence mapping at the middle region of human PMVK, different from the related mouse and rat sequence by single amino acid.

Purification

Immunogen affinity purified

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

PMVK (phosphomevalonate kinase) is a cytosolic enzyme that catalyzes the conversion of mevalonate-5-phosphate to mevalonate-5-diphosphate. It is mapped to chromosome 1p13-1q22-23 and spans more than 8.4 kb in the human genome. PMVK is a peroxisomal protein which requires the C-terminal peroxisomal targeting signal, Ser-Arg-Leu, for localization to the organelle. It was expressed highly in heart, liver, skeletal muscle, kidney and pancreas and slightly lower in brain, placenta, and lung. And PMKase gene expression is subject to regulation by sterol at the level of transcription. It is a single copy gene covering less than 15 kb in the human genome. The human PMKase amino acid sequence contains a consensus peroxisomal targeting sequence (PTS-1), Ser-Arg-Leu, at the C terminus of the protein.

REFERENCE

1. Olivier, L. M.; Chambliss, K. L.; Gibson, K. M.; Krisans, S. K. : Characterization of phosphomevalonate kinase: chromosomal localization, regulation, and subcellular targeting. *J. Lipid Res.* 40: 672-679, 1999.
2. Chambliss, K. L.; Slaughter, C. A.; Schreiner, R.; Hoffmann, G. F.; Gibson, K. M. : Molecular cloning of human phosphomevalonate kinase and identification of a consensus peroxisomal targeting sequence. *J. Biol. Chem.* 271: 17330-17334, 1996.

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