



Product Information Sheet

Polyclonal Anti-Phosphomevalonate kinase, **PMVK**

Catalogue No. PA1067

Lot No. 07B01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

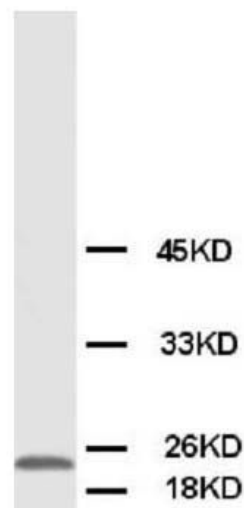
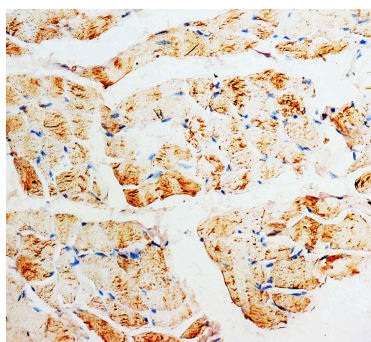
No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunocytochemistry



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.

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect PMVK in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect PMVK in formalin fixed and paraffin embedded tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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.