

Anti-PMVK Antibody
Catalog # ABO10551**Specification**

Anti-PMVK Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q15126
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Phosphomevalonate kinase(PMK) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

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

Anti-PMVK Antibody - Additional Information

Gene ID 10654

Other Names

Phosphomevalonate kinase, PMKase, hPMK, 2.7.4.2, PMVK, PMKI

Calculated MW

21995 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse

Subcellular Localization

Peroxisome .

Tissue Specificity

Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung. .

Protein Name

Phosphomevalonate kinase(PMKase/hPMK)

Contents

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

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human PMVK(135-151aa EQSRQQRGWVFTPGVDD), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

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 a longer time. Avoid repeated freezing and thawing.

Anti-PMVK Antibody - Protein Information

Name PMVK

Synonyms PMKI

Function

Catalyzes the reversible ATP-dependent phosphorylation of mevalonate 5-phosphate to produce mevalonate diphosphate and ADP, a key step in the mevalonic acid mediated biosynthesis of isopentenyl diphosphate and other polyisoprenoid metabolites.

Cellular Location

Cytoplasm, cytosol

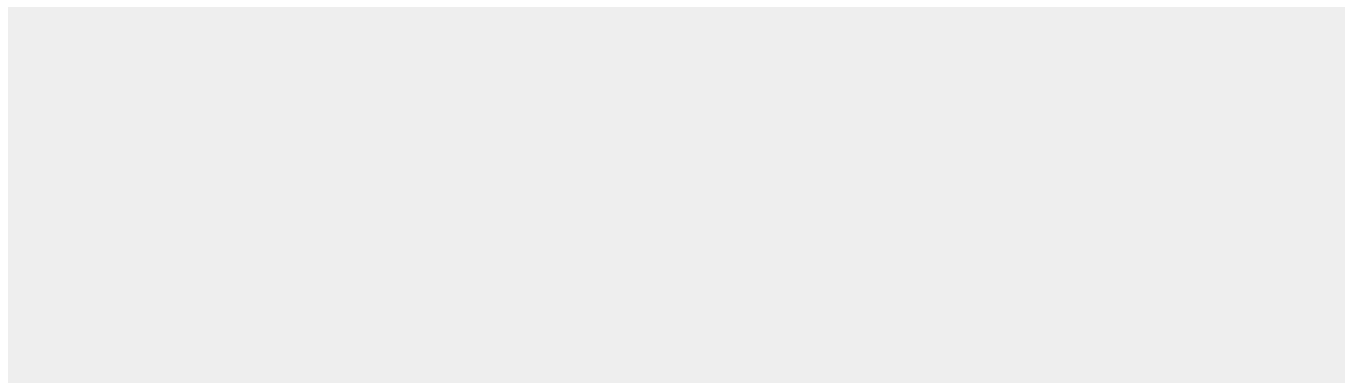
Tissue Location

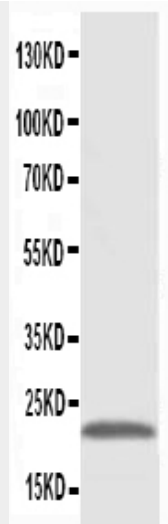
Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung

Anti-PMVK Antibody - Protocols

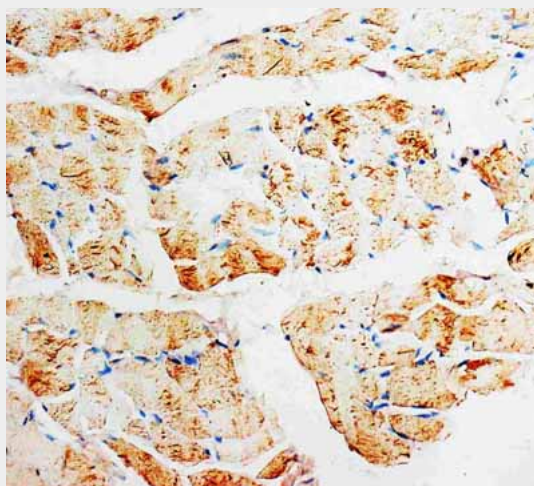
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PMVK Antibody - Images



Anti-PMVK antibody, ABO10551, Western blottingWB: Rat Cardiac Muscle Tissue Lysate



Anti-PMVK antibody, ABO10551, IHC(P)IHC(P): Rat Skeletal Muscle Tissue

Anti-PMVK Antibody - 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.