

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

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**Anti-PMVK Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q15126</a>
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<br>Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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

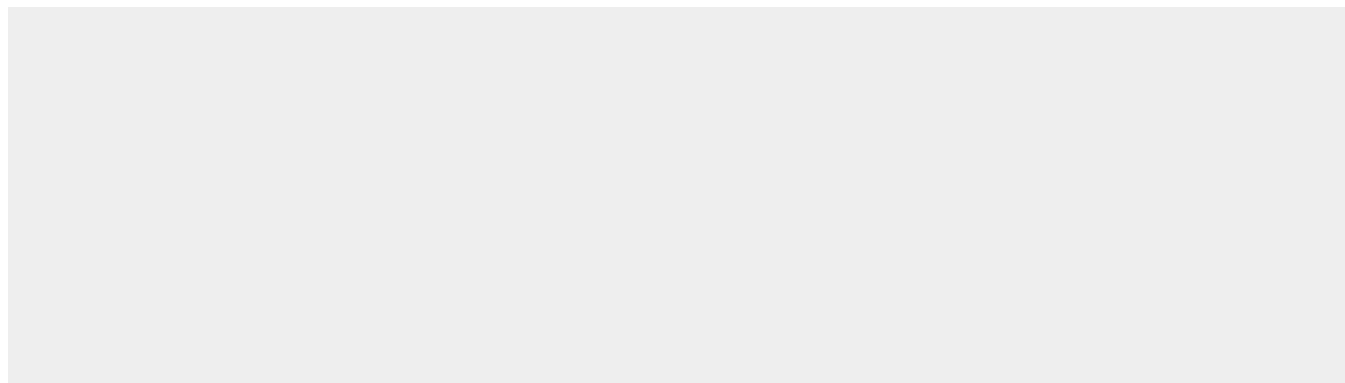
**Tissue Location**

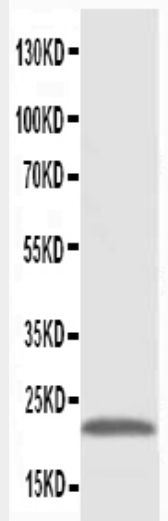
Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung

**Anti-PMVK Antibody - Protocols**

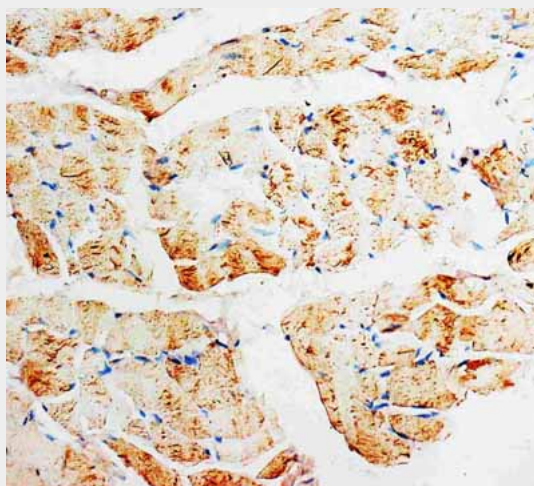
Provided below are standard protocols that you may find useful for product applications.

- [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.