

Product datasheet for **AP23367PU-N**

PMVK Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: Use at 0.1-0.5 µg/ml with the appropriate system to detect PMVK in cells and tissues. Immunohistochemistry on Paraffin Sections: Use at 0.5-1 µg/ml to detect PMVK in formalin fixed and paraffin embedded tissues. <i>Heat Antigen Retrieval isn recommended.</i>
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence mapping at the middle region of Human PMVK
Specificity:	This antibody detects PMVK (mid region). No cross reactivity with other proteins.
Formulation:	0.2 mg Na ₂ HPO ₄ , 0.9 mg NaCl State: Aff - Purified State: Lyophilized purified Ig fraction Stabilizer: 5 mg BSA Preservative: 0.05 mg Thimerosal, 0.05 mg Sodium Azide
Reconstitution Method:	0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphomevalonate kinase



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Database Link: [Entrez Gene 68603 Mouse](#)[Entrez Gene 10654 Human](#)
[Q15126](#)

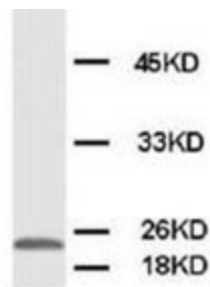
Background: PMVK (phosphomevalonate kinase) is a cytosolic enzyme that catalyzes the conversion of mevalonate-5-phosphate to mevalonate-5-diphosphate. It is mapped to chromosome 1p13-1q22-23 and spans more than 8.4 kb in the human genome. PMVK is a peroxisomal protein which requires the C-terminal peroxisomal 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.

Synonyms: Phosphomevalonate kinase, PMKase, PMKI, HUMPMKI

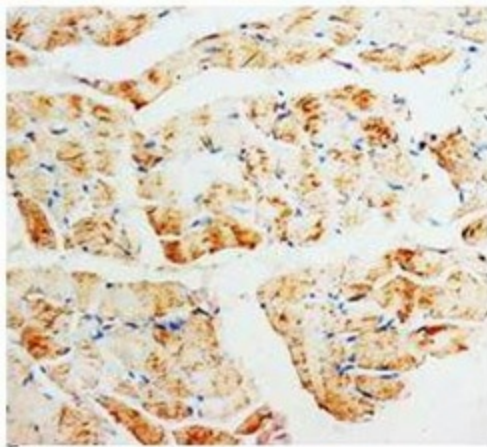
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

Product images:



Western blot analysis of cardiac muscle tissue lysis using PMKV antibody



Immunohistochemical analysis of paraffin embedded rat skeletal muscle sections, staining PMVK in cytoplasm, DAB chromeric reaction