

Anti-PMVK Antibody

Catalog # ABO10551

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.

Additional Information

Gene ID	10654
Other Names	Phosphomevalonate kinase, PMKase, hPMK, 2.7.4.2, PMVK, PMKI
Calculated MW	21995
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Rat, Human, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Rat, Human, Mouse
Subcellular Localization	Peroxisome .
Tissue Specificity	Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung. .
Source	Eukaryota
Protein Name	Phosphomevalonate kinase(PMKase/hPMK)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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.
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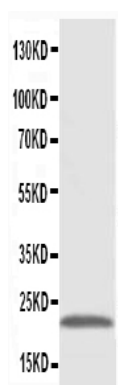
Protein Information

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

Background

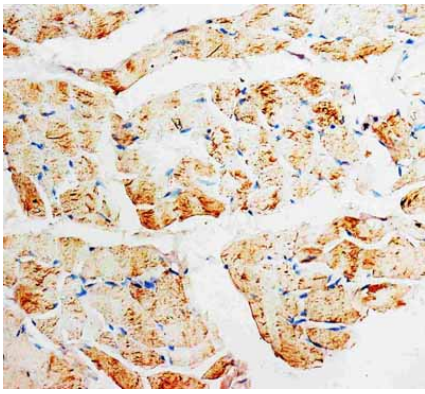
PMVK(phosphomevalonate kinase) is a cytosolic enzyme that catalyzes the conversion of mevalonate-5-phosphate to mevalonate-5-diphosphate. It is mapped to chromosome 1p13-1q22-23 and spans more than 8.4 kb in the human genome. PMVK is a peroxisomal protein which requires the C-terminal peroxisomal targeting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

Images



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

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



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