

## **PMVK Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58293

### **Specification**

# **PMVK Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, E

Primary Accession Q15126

Reactivity
Host
Clonality
Rat, Pig, Bovine
Rabbit
Polyclonal

Calculated MW 22 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human PMVK

Epitope Specificity 15-120/192

Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Peroxisome.

SUBUNIT Monomer (By similarity).

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

PMVK is a 192 amino acid peroxisomal enzyme belonging to the nucleoside monophosphate (NMP) kinase family and is expressed in heart, liver, skeletal muscle, kidney, and pancreas with lower expression in brain, placenta and lung. Induced by sterol, PMVK participates in isopentenyl diphosphate biosynthesis via the mevalonate pathway. PMVK catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate in the fifth reaction of the cholesterol biosynthetic pathway. PMVK exists as a monomer and is encoded by a gene located on human chromosome 1, which houses over 3,000 genes and is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome.

## **PMVK Polyclonal Antibody - Additional Information**

#### **Gene ID** 10654

## **Other Names**

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

## Target/Specificity

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

## **Dilution**

<span class ="dilution WB">WB~~1:1000</span><br \><span class</pre>



- ="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>
- Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## **PMVK Polyclonal 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**

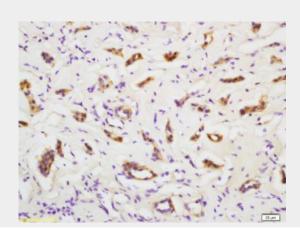
Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung

## **PMVK Polyclonal 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 Cytomety
- Cell Culture

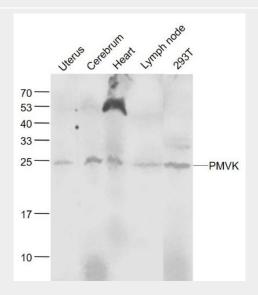
## **PMVK Polyclonal Antibody - Images**





Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-PMVK Polyclonal Antibody, Unconjugated(bs-5371R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



# Sample:

Uterus (Mouse) Lysate at 40 ug Cerebrum (Mouse) Lysate at 40 ug Heart (Mouse) Lysate at 40 ug Lymph node (Mouse) Lysate at 40 ug 293T(Human) Cell Lysate at 30 ug

Primary: Anti-PMVK (bs-5371R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 22 kD Observed band size: 24 kD