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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	**Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human PMVK**
Epitope Specificity	**15-120/192**
Isotype	**IgG**
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
WB~~1:1000<br \><span class

="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

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

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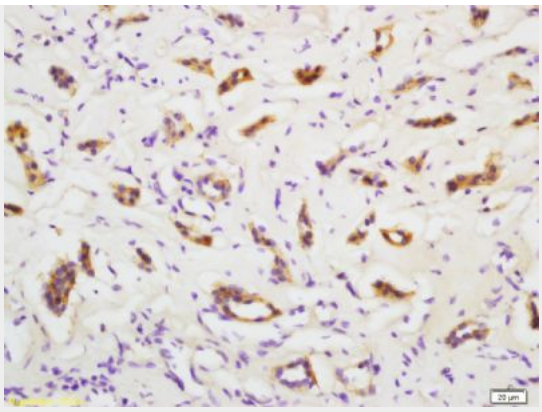
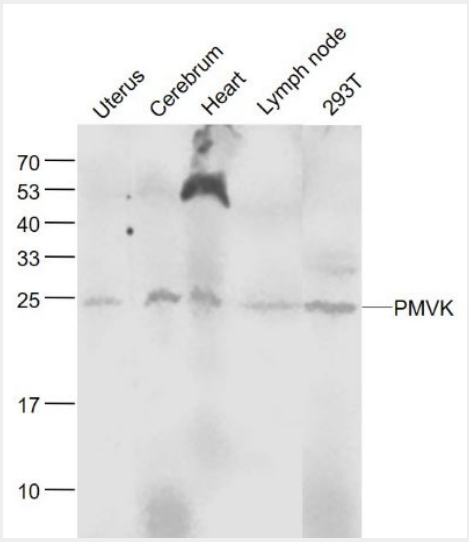


Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-PMVK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