

Rabbit PMVK Polyclonal Antibody | anti-PMVK antibody

PMVK Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA292006	Rabbit	Rat, Pig, Bovine	ELISA, Immunofluorescence, Immunohistochemistry, Immunohistochemistry, Western Blot

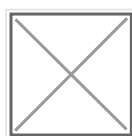
PRODUCT SYNONYMS

PMVK; Polyclonal Antibody; PMVK Polyclonal Antibody; Phosphomevalonate kinase; PMKase; hPMK; 2.7.4.2; PMKI; anti-PMVK antibody

PRODUCT SPECIFICATIONS

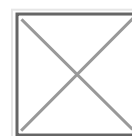
Host	Rabbit
Reactivity	Rat, Pig, Bovine
Clonality	Polyclonal
Isotype	IgG
Specificity	Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung.
Purity/Purification	affinity purified by Protein A
Form/Format	Liquid; 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Applicable Applications for anti-PMVK antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	KLH conjugated synthetic peptide derived from human PMVK
Epitope Specificity	15-120/192
Subcellular Location	Peroxisome
Subunit	Monomer (By similarity).
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
Preparation and 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.

IMAGES



WB (Western Blot)

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 kDa
 Observed band size: 24 kDa



IHC (Immunohistochemistry)

Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum, C-0005) at 37 degree C for 20 min; Incubation: Anti-PMVK Polyclonal Antibody, Unconjugated (bs-5371R) 1:200, overnight at 4 degree C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

ADDITIONAL INFORMATION

Related Product Information for anti-PMVK antibody	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.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	5729980
NCBI GeneID	10654
NCBI Accession #	NP_006547.1
NCBI GenBank Nucleotide #	NM_006556.3
UniProt Accession #	Q15126; Q5TZW9
Molecular Weight	22 KDa
NCBI Official Full Name	phosphomevalonate kinase
NCBI Official Synonym Full Names	phosphomevalonate kinase
NCBI Official Symbol	PMVK
NCBI Official Synonym Symbols	PMK; PMKA; PMKASE; POROK1; HUMPMKI
NCBI Protein Information	phosphomevalonate kinase
UniProt Protein Name	Phosphomevalonate kinase
UniProt Gene Name	PMVK
UniProt Synonym Gene Names	PMKI; PMKase; hPMK
UniProt Entry Name	PMVK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.