

Product datasheet for **CF503449**

PMVK Mouse Monoclonal Antibody [Clone ID: OTI2F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2F9
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PMVK(NP_006547) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21.8 kDa
Gene Name:	phosphomevalonate kinase
Database Link:	NP_006547 Entrez Gene 10654 Human Q15126



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Background:

This gene encodes a peroxisomal enzyme that catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate, the fifth reaction of the cholesterol biosynthetic pathway. Studies in rat show that the message level and the enzyme activity of this protein is regulated by sterol, and that this regulation is coordinated with 3-hydroxy-3-methylglutaryl coenzyme A reductase, the rate-limiting enzyme of cholesterol biosynthesis. [provided by RefSeq, Sep 2011]

Synonyms:

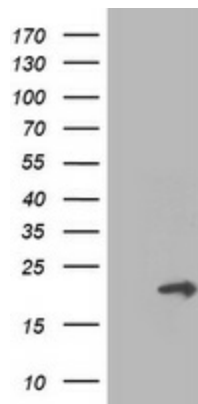
HUMPMKI; PMK; PMKA; PMKASE; POROK1

Protein Families:

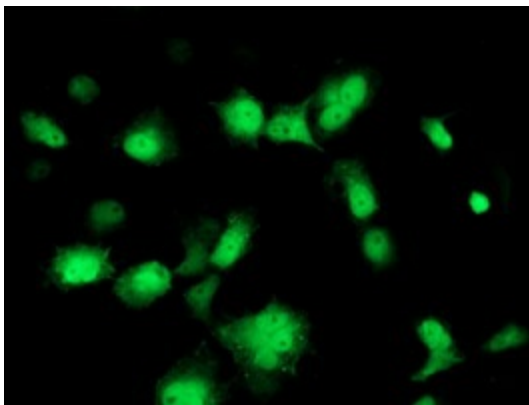
Druggable Genome

Protein Pathways:

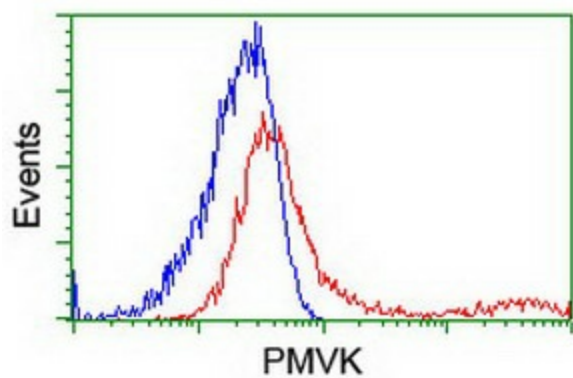
Metabolic pathways, Terpenoid backbone biosynthesis

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PMVK (Cat# [RC202867], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PMVK (Cat# [TA503449]). Positive lysates [LY416571] (100ug) and [LC416571] (20ug) can be purchased separately from OriGene.



Anti-PMVK mouse monoclonal antibody ([TA503449]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PMVK ([RC202867]).



HEK293T cells transfected with either [RC202867] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PMVK antibody ([TA503449]), and then analyzed by flow cytometry.