# NKMAXBio We support you, we believe in your research

# **Human PMVK antibody**

Catalog Number: ATGA0349

# **PRODUCT INFORMATION**

# Catalog number

ATGA0349

#### Clone No.

AT21C10

# **Product type**

Monoclonal Antibody

#### UnitProt No.

Q15126

#### **NCBI Accession No.**

NP 006547

#### **Alternative Names**

Phosphomevalonate kinase, HuMPMKI, PMK, PMKA, PMKASE, Phosphomevalonate kinase

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human PMVK (1-192aa) purified from E. coli

#### Isotype

IgG2a kappa

## **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



# NKMAXBIO We support you, we believe in your research

# **Human PMVK antibody**

Catalog Number: ATGA0349

#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

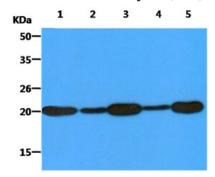
Phosphomevalonate kinase, also known as PMVK, is a cytosolic enzyme. It was expressed highly in heart, liver, skeletal muscle, kidney and pancreas and slightly lower in brain, placenta, and lung. Induced by sterol, PMVK participates in isopentenyl diphosphate biosynthesis via the mevalonate pathway. PMVK catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate in the fifth reaction of the cholesterol biosynthetic pathway.

#### **General References**

Cho YK., et al. (2001) J Biol chem. 278: 4510-4515. Hogenboom S., et al. (2004) J Lipid Res. 45: 697-705.

# **DATA**

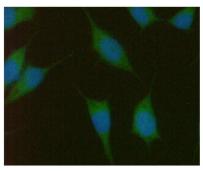
# Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PMVK antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: Jukat cell lysate Lane 4.: MCF7 cell lysate Lane 5.: A549 cell lysate

# Immunocytochemistry/Immunofluorescence (ICC/IF)



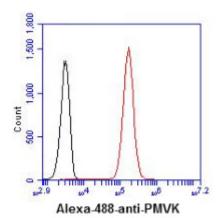
ICC/IF analysis of PMVK in PC3 cells. The cell was stained with ATGA0349 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

# NKMAXBio We support you, we believe in your research

# **Human PMVK antibody**

Catalog Number: ATGA0349



Flow cytometry analysis of PMVK in LNCap cell line, staining at 2-5ug for  $1\times10^6$  cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

