

For Research Use Only

# MVK Polyclonal antibody

Catalog Number: 12228-1-AP

7 Publications



## Basic Information

### Catalog Number:

12228-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2865

### GenBank Accession Number:

BC016140

### GeneID (NCBI):

4598

### UNIPROT ID:

Q03426

### Full Name:

mevalonate kinase

### Calculated MW:

396 aa, 42 kDa

### Observed MW:

42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, sheep

### Positive Controls:

WB : Caco-2 cells, PC-3 cells, mouse uterus tissue, Jurkat cells, HepG2 cells

IF/ICC : PC-3 cells,

## Background Information

MVK (Mevalonate kinase) is a 42 kDa cytoplasmic protein that belongs to the GHMP kinase family. Mevalonate kinase catalyzes the ATP-dependent phosphorylation of mevalonic acid to form mevalonate 5-phosphate. Defects in mevalonate kinase can cause mevalonic aciduria (MEVA). It is an accumulation of mevalonic acid which causes a variety of symptoms such as psychomotor retardation, dysmorphic features, cataracts, hepatosplenomegaly, lymphadenopathy, anemia, hypotonia, myopathy and ataxia.

## Notable Publications

Author	Pubmed ID	Journal	Application
Audrey Basque	36279966	Toxicol In Vitro	WB
Min Li	32256770	Exp Ther Med	WB
Audrey Basque	35723385	Curr Issues Mol Biol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

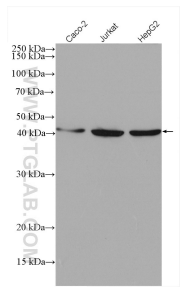
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

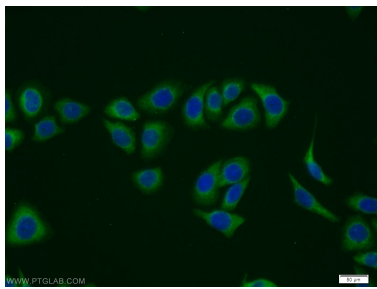
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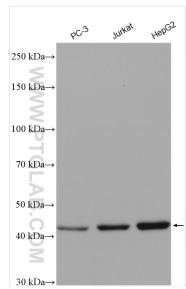
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12228-1-AP (MVK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of PC-3 cells using 12228-1-AP (MVK antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



PC-3 cells were subjected to SDS PAGE followed by western blot with 12228-1-AP (MVK antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.