

For Research Use Only

# MVD Polyclonal antibody

Catalog Number: 15331-1-AP

5 Publications



## Basic Information

### Catalog Number:

15331-1-AP

### Size:

150ul, Concentration: 240 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7255

### GenBank Accession Number:

BC000011

### GeneID (NCBI):

4597

### UNIPROT ID:

P53602

### Full Name:

mevalonate (diphospho) decarboxylase

### Calculated MW:

43 kDa

### Observed MW:

66-74 kDa, 45 kDa, 37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : HCT 116 cells, rat liver tissue, HepG2 cells, K-562 cells

IHC : human colon tissue, human lung cancer tissue, human heart tissue

IF/ICC : A549 cells, A431 cells

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The enzyme mevalonate pyrophosphate decarboxylase(MVD) catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate. It is also named as MPD and as a unique enzyme in one of the early steps in cholesterol biosynthesis, MVD may be a useful target for drugs aimed at lowering serum cholesterol levels(PMID:8626466). The intracellular glycosylation does not contribute to the difference between the 45 and 37 kDa species of MVD. The native MVD has a molecular weight of 90 kDa that it consists of two identical subunits of 45 kDa and a 37 kDa protein is also found as a subunit of MVD and this type of MVD may be a 74 kDa. But the 37 kDa enzyme appeared only when the rats are fed the CP diet.(PMID:9348097).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenhua Zhang	34562605	Cell Signal	IHC
Audrey Basque	35723385	Curr Issues Mol Biol	WB
Kailin Xing	38084209	J Hepatocell Carcinoma	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

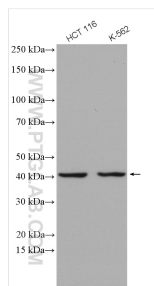
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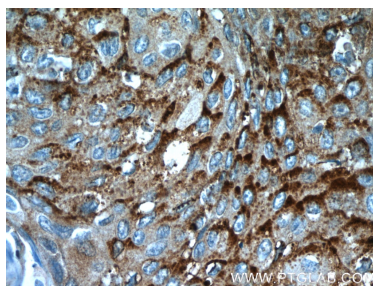
E: proteintech@ptglab.com  
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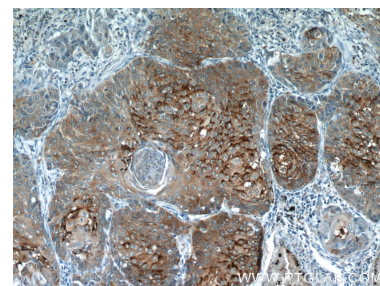
## Selected Validation Data



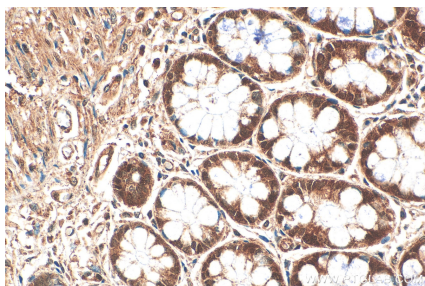
Various lysates were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



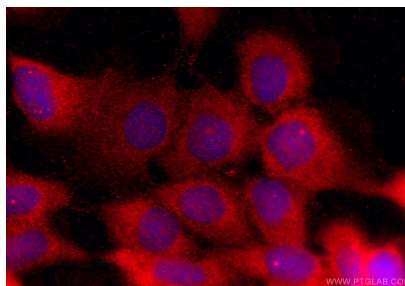
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 40x lens).



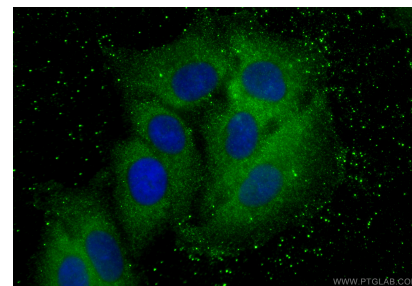
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 15331-1-AP (MVD antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using MVD antibody (15331-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using MVD antibody (15331-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).