

For Research Use Only

# MVD Polyclonal antibody, PBS Only

Catalog Number:15331-1-PBS



## Basic Information

**Catalog Number:**

15331-1-PBS

**Size:**

100ug , Concentration: 1mg/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

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Species Specificity:**

human, mouse, rat

## 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).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

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)

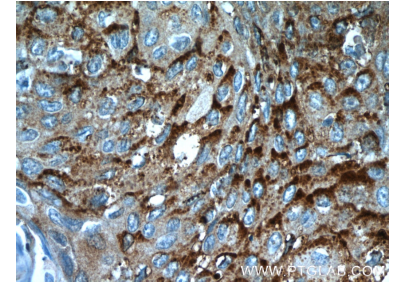
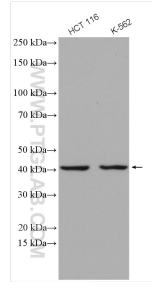
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data

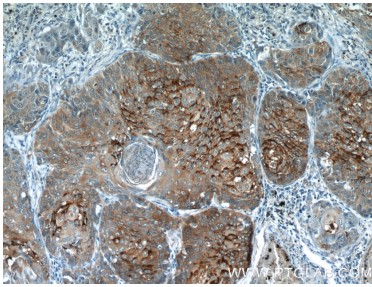


HepG2 cells were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

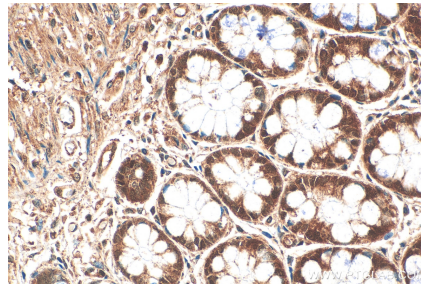


Various lysates were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.

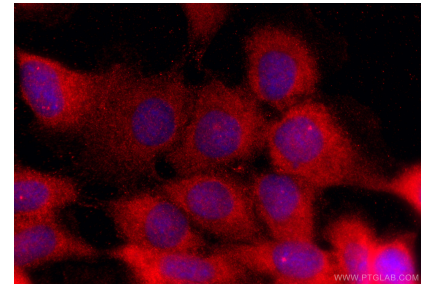
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.



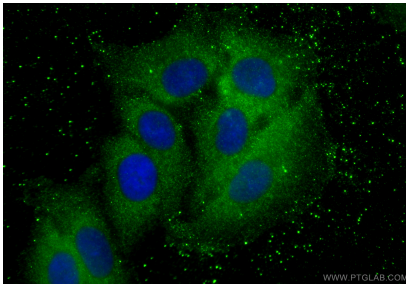
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 15331-1-PBS in a different storage buffer formulation.