

For Research Use Only

MVD Polyclonal antibody

Catalog Number: 15331-1-AP **4 Publications**



Basic Information

| | | |
|---|---|---|
| Catalog Number: 15331-1-AP | GenBank Accession Number: BC000011 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 240 µg/ml by Nanodrop; | GeneID (NCBI): 4597 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500 |
| Source: Rabbit | Full Name: mevalonate (diphospho) decarboxylase | |
| Isotype: IgG | Calculated MW: 43 kDa | |
| Immunogen Catalog Number: AG7255 | Observed MW: 66-74 kDa, 45 kDa, 37 kDa | |

Applications

| | |
|---|---|
| Tested Applications: IF, IHC, WB, ELISA | 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 : A431 cells, |
| Cited Applications: IHC, WB | |
| Species Specificity: human, mouse, rat | |
| Cited Species: human, mouse | |

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

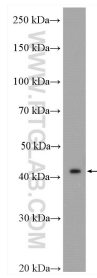
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

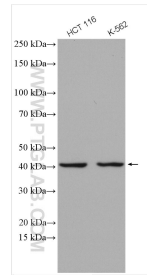
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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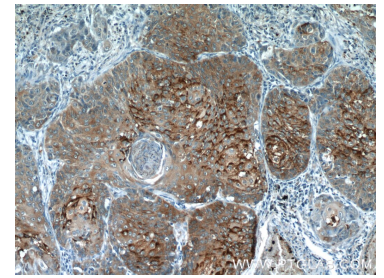
Selected Validation Data



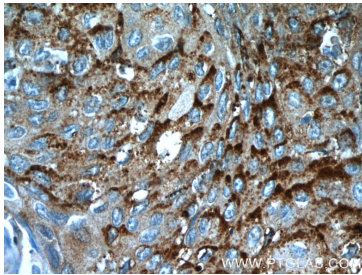
HepG2 cells were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



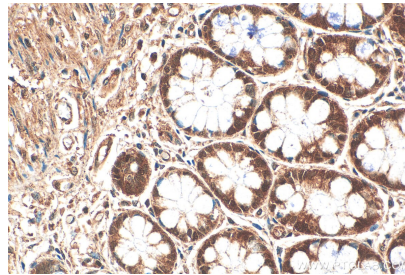
Various lysates were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



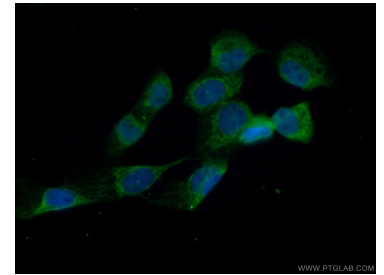
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 40x 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 (10% Formaldehyde) fixed A431 cells using 15331-1-AP (MVD antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).