For Research Use Only

MVD Polyclonal antibody

Catalog Number:15331-1-AP 5 Publications

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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

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

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 : A431 cells,

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**

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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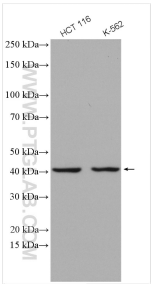
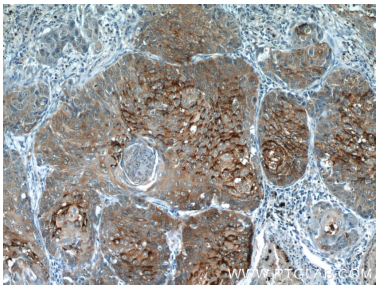
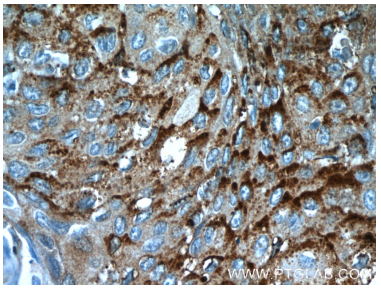
Selected Validation Data



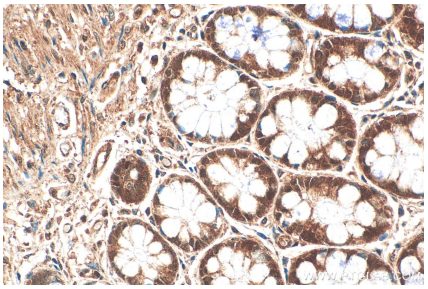
Various lysates were subjected to SDS PAGE followed by western blot with 15331-1-AP (MVD antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



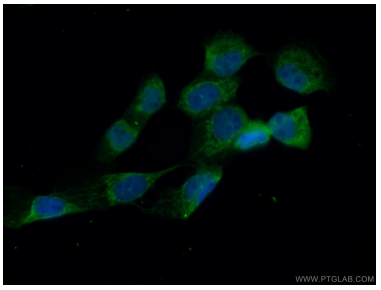
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15331-1-AP (MVD Antibody) at dilution of 1:50 (under 10x lens).



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 Goat Anti-Rabbit IgG(H+L).