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MVD Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6717c

Specification

MVD Antibody (Center) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	P53602
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**43405**
Antigen Region	**164-193**

MVD Antibody (Center) - Additional Information

Gene ID 4597

Other Names
Diphosphomevalonate decarboxylase, Mevalonate (diphospho)decarboxylase, MDDase, Mevalonate pyrophosphate decarboxylase, MVD, MPD

Target/Specificity
This MVD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 164-193 amino acids from the Central region of human MVD.

Dilution
WB~~1:1000
FC~~1:10~50
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MVD Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MVD Antibody (Center) - Protein Information

Name MVD

Synonyms MPD {ECO:0000303|PubMed:14972328}

Function Catalyzes the ATP dependent decarboxylation of (R)-5- diphosphomevalonate to form isopentenyl diphosphate (IPP). Functions in the mevalonate (MVA) pathway leading to isopentenyl diphosphate (IPP), a key precursor for the biosynthesis of isoprenoids and sterol synthesis.

Cellular Location
Cytoplasm.

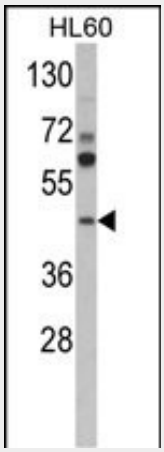
Tissue Location
Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.

MVD Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MVD Antibody (Center) - Images



Western blot analysis of MVD Antibody (Center)(Cat. #AP6717c) in HL60 cell line lysates (35ug/lane). MVD (arrow) was detected using the purified Pab.

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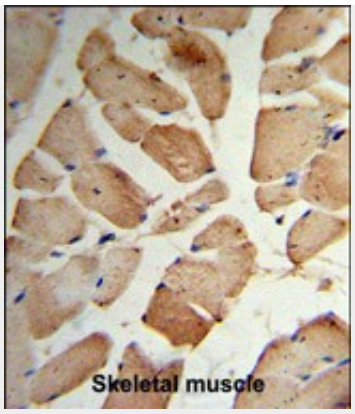
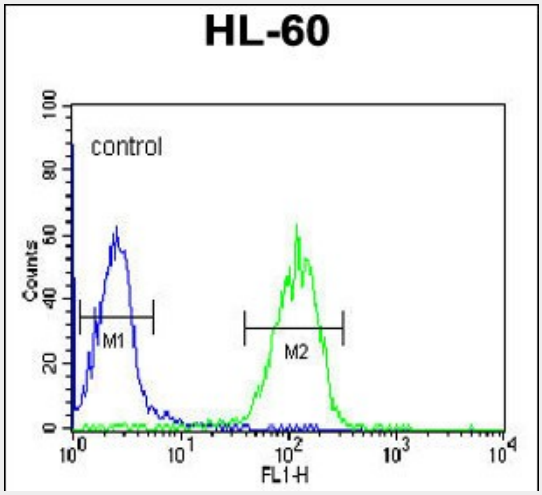


Formalin-fixed and paraffin-embedded human Skeletal muscle reacted with MVD Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



MVD Antibody (Center) (Cat. #AP6717c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MVD Antibody (Center) - Background

The enzyme mevalonate pyrophosphate decarboxylase catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate in one of the early steps in cholesterol biosynthesis. It decarboxylates and dehydrates its substrate while hydrolyzing ATP.

MVD Antibody (Center) - References

Voynova,N.E., Arch. Biochem. Biophys. 480 (1), 58-67 (2008)
Hogenboom,S., Mol. Genet. Metab. 81 (3), 216-224 (2004)
Wadhwa,R., Biochem. Biophys. Res. Commun. 302 (4), 735-742 (2003)