

MVD Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6717c

Product Information

Application WB, IHC-P, FC, E

Primary Accession P53602

Reactivity Human, Rat, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB18656Calculated MW43405Antigen Region164-193

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 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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.

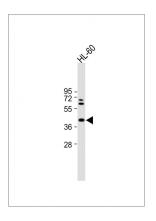
Background

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.

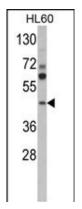
References

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)

Images

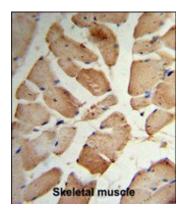


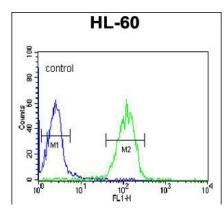
All lanes : Anti-MVD Antibody (Center) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 43kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.