10320 Camino Santa Fe, Suite G
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Anti-MVD Picoband Antibody
Catalog # ABO10201

Specification

Anti-MVD Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P53602
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for MVD detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MVD Picoband Antibody - Additional Information

Gene ID 4597

Other Names
Diphosphomevalonate decarboxylase, 4.1.1.33, Mevalonate (diphospho)decarboxylase, MDDase, Mevalonate pyrophosphate decarboxylase, MVD, MPD

Application Details
Western blot, 0.1-0.5 µg/ml

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

Contents
Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen
A synthetic peptide corresponding to a sequence of human MVD (KDFTEDRIWLNGREEDVGQPRLQACLREIRCLARKRR).

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C; for one year. After r˚Constitution, at 4˚C; for one month. It˚Can also be aliquotted and stored frozen at -20˚C; for a longer time. Avoid repeated freezing and thawing.**

Anti-MVD Picoband Antibody - Protein Information

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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.

Anti-MVD Picoband Antibody - 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

Anti-MVD Picoband Antibody - Images

Anti-MVD Picoband Antibody - Background

The enzyme mevalonate pyrophosphate decarboxylase (MVD; EC 4.1.1.33) catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate. This unusual enzyme decarboxylates and dehydrates its substrate while hydrolyzing ATP. 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. This gene is mapped to chromosome 16q24.3 based on an alignment of the MVDsequence.