

**Anti-MVD Picoband Antibody**  
Catalog # ABO10201**Specification****Anti-MVD Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P53602</a>
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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

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

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C; for one year. After reconstitution, 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**

**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 Cytometry](#)
- [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.