

**MVD Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6717c****Specification**

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**MVD Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P53602](#)**MVD Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4597**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6717c](/products/AP6717c) was selected from the Center region of human MVD. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MVD Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **MVD Antibody (Center) Blocking Peptide - Images**

## **MVD Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)