

Anti-MVD Picoband Antibody

Catalog # ABO10201

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.

Additional Information

Gene ID	4597
Other Names	Diphosphomevalonate decarboxylase, 4.1.1.33, Mevalonate (diphospho)decarboxylase, MDDase, Mevalonate pyrophosphate decarboxylase, MVD, MPD
Calculated MW	43405
Application Details	Western blot, 0.1-0.5 µg/ml
Tissue Specificity	Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence of human MVD (KDFTE ^{DRI} WLNGREEDVGQ ^{PRL} QAC ^{LRE} IRCLARKRR).
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.

Protein Information

Name	MVD
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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 (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.

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