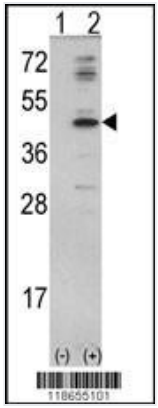
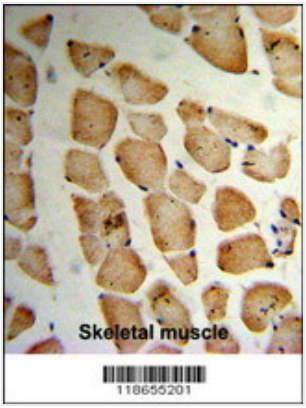
MVD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MVD, Polyclonal Antibody
Full Product Name	MVD, NT (Mevalonate Pyrophosphate Decarboxylase, MPD, Diphosphomevalonate Decarboxylase, FP17780, Mevalonate (Diphospho) Decarboxylase, MDDase) (HRP)
Product Gene Name	anti-MVD antibody
Product Synonym Names	Mevalonate (Diphospho)Decarboxylase; EC=4.1.1.33
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human MVD.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	45.6 kDa (420aa), confirmed by MALDI-TOF
OMIM	603236
3D Structure	ModBase 3D Structure for P53602
Immunogen	Synthetic peptide selected from the N-terminal region of human MVD (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-MVD antibody	Antibodies; Enzymes; Decarboxylase
Applications Tested/Suitable for anti-MVD antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MVD antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MVD antibody	MBS6488724 is an antibody targeting MVD. Also known as MVD, NT (Mevalonate Pyrophosphate Decarboxylase, MPD, Diphosphomevalonate Decarboxylase, FP17780, Mevalonate (Diphospho) Decarboxylase, MDDase) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MVD antibody	1. Voynova, N.E., Arch. Biochem. Biophys. 480(1), 58-67 (2008). 2. Hogenboom, S., Mol. Genet. Metab. 81(3), 216-224 (2004). 3. Wadhwa, R., Biochem. Biophys. Res. Commun. 302(4), 735-742 (2003).
Other Notes	Small volumes of anti-MVD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MVD antibody
Western blot analysis of MVD (arrow) using rabbit polyclonal MVD Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MVD gene (Lane 2).



Immunohistochemistry (IHC) of anti-MVD antibody
Formalin-fixed and paraffin-embedded human Skeletal muscle reacted with MVD Antibody (N-term), 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MVD. It may not necessarily be applicable to this product.

NCBI GI #	4505289
NCBI GeneID	4597
NCBI Accession #	NP_002452
UniProt Primary Accession #	P53602
UniProt Secondary Accession #	Q53Y65
UniProt Related Accession #	P53602
GenBank Nucleotide #	NM_002461.2
NCBI Official Full Name	diphosphomevalonate decarboxylase
NCBI Official Synonym Full Names	mevalonate diphosphate decarboxylase
NCBI Official Symbol	MVD
NCBI Official Synonym Symbols	MPD; MDDase; POROK7; FP17780
UniProt Protein Name	Diphosphomevalonate decarboxylase
UniProt Synonym Protein Names	Mevalonate (diphospho)decarboxylase; MDDase; Mevalonate pyrophosphate decarboxylase
UniProt Gene Name	MVD
UniProt Synonym Gene Names	MPD; MDDase
UniProt Entry Name	MVD1_HUMAN
NCBI Protein Information	diphosphomevalonate decarboxylase
NCBI Summary for MVD	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. [provided by RefSeq, Jul 2008]

UniProt Comments for MVD	MVD: Performs the first committed step in the biosynthesis of isoprenes. Belongs to the diphosphomevalonate decarboxylase family. Protein type: Lyase; Secondary Metabolites Metabolism - terpenoid backbone biosynthesis; EC 4.1.1.33 Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: peroxisome; cytosol Molecular Function: diphosphomevalonate decarboxylase activity; protein homodimerization activity; Hsp70 protein binding; ATP binding Biological Process: cellular protein metabolic process; isoprenoid biosynthetic process; isopentenyl diphosphate biosynthetic process, mevalonate pathway; dolichol-linked oligosaccharide biosynthetic process; positive regulation of cell proliferation; dolichyl diphosphate biosynthetic process; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification; cholesterol biosynthetic process
Research Articles on MVD	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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