MVP Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MVP (MVK), Blocking Peptide
Full Product Name	MVP Antibody (N-term) Blocking peptide
Product Gene Name	MVK blocking peptide
Product Synonym Names	Mevalonate kinase; MK; MVK
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human MVK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MVP peptide (MBS9227611) is used for blocking the activity of MVK antibody (MBS9213888)
Molecular Weight	42,451 Da
OMIM	175900
Cellular Location	Cytoplasm.
Related Product Information for MVK blocking peptide	MBS9227611 is a blocking peptide targeting MVK. Also known as MVP Antibody (N-term) Blocking peptide. May be a regulatory site in cholesterol biosynthetic pathway.
Other Notes	Small volumes of MVK blocking peptide 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.

ADDITIONAL DETAILS

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

NCBI GI #	4557769
NCBI GeneID	4598
NCBI Accession #	NP_000422
UniProt Primary Accession #	Q03426
UniProt Related Accession #	Q03426
GenBank Nucleotide #	NM_000431.3
NCBI Official Full Name	mevalonate kinase isoform a
NCBI Official Synonym Full Names	mevalonate kinase
NCBI Official Symbol	MVK
NCBI Official Synonym Symbols	MK; LRBP; MVLK; POROK3
UniProt Protein Name	Mevalonate kinase
Protein Family	Mevalonate kinase

UniProt Gene Name	MVK
UniProt Synonym Gene Names	MK
UniProt Entry Name	KIME_HUMAN
NCBI Protein Information	mevalonate kinase
NCBI Summary for MVK	This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized psychomotor retardation, failure to thrive, hepatosplenomegaly, anemia and recurrent febrile crises. Defects in this gene also cause hyperimmunoglobulinaemia D and periodic fever syndrome, a disorder characterized by recurrent episodes of fever associated with lymphadenopathy, arthralgia, gastrointestinal dismay and skin rash. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for MVK	MVK: May be a regulatory site in cholesterol biosynthetic pathway. Defects in MVK are the cause of mevalonic aciduria (MEVA). It is an accumulation of mevalonic acid which causes a variety of symptoms such as psychomotor retardation, dysmorphic features, cataracts, hepatosplenomegaly, lymphadenopathy, anemia, hypotonia, myopathy, and ataxia. Defects in MVK are the cause of hyperimmunoglobulinemia D and periodic fever syndrome (HIDS). HIDS is an autosomal recessive disease characterized by recurrent episodes of unexplained high fever associated with skin rash, diarrhea, adenopathy (swollen, tender lymph nodes), athralgias and/or arthritis. Concentration of IgD, and often IgA, are above normal. Belongs to the GHMP kinase family. Mevalonate kinase subfamily. Protein type: Translation; RNA-binding; EC 2.7.1.36; Kinase, other; Secondary Metabolites Metabolism - terpenoid backbone biosynthesis Chromosomal Location of Human Ortholog: 12q24 Cellular Component: cytosol; peroxisome Molecular Function: identical protein binding; mevalonate kinase activity; protein binding Biological Process: cholesterol biosynthetic process; isoprenoid biosynthetic process; negative regulation of inflammatory response Disease: Hyper-igd Syndrome; Mevalonic Aciduria; Porokeratosis 3, Disseminated Superficial Actinic Type
Research Articles on MVK	**1.** Wild-type MK and the variant V261A, which is associated with HIDS, were recombinantly expressed in Escherichia coli. Enzyme activity was determined by formation of MVAP over time
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