Product name:	MVK Rabbit Polyclonal Antibody
Cat number:	ABN14250
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human Mevalonate Kinase. AA range:151-200
Reactivity:	Human,Monkey
Applications:	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight:	42kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

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],catalytic activity:ATP + (R)-mevalonate = ADP + (R)-5-phosphomevalonate.,disease:Defects in MVK are the cause of hyperimmunoglobulinemia D and periodic fever syndrome (HIDS) [MIM:260920]. 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.,disease:Defects in MVK are the cause of mevalonic aciduria [MIM:610377]. 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.,enzyme regulation:Farnesyl- and geranyl-pyrophosphates are competitive inhibitors.,function:May be a regulatory site in cholesterol biosynthetic pathway.,online information:Repertory of FMF and hereditary autoinflammatory disorders mutations,pathway:Isoprenoid biosynthesis; isopentenyl-PP biosynthesis via mevalonic acid pathway; isopentenyl-PP from (R)-mevalonic acid: step 1/3.,similarity:Belongs to the GHMP kinase family.,similarity:Belongs to the GHMP kinase family. Mevalonate kinase subfamily.,subunit:Homodimer.,