Best Tools for immunology Research

MVK Polyclonal Antibody

Catalog No :	YT2924
Reactivity :	Human;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	MVK
Fields :	>>Terpenoid backbone biosynthesis;>>Metabolic pathways;>>Peroxisome
Gene Name :	MVK
Protein Name :	Mevalonate kinase
Human Gene Id :	4598
Human Swiss Prot No :	Q03426
Mouse Swiss Prot No :	Q9R008
Immunogen :	The antiserum was produced against synthesized peptide derived from human Mevalonate Kinase. AA range:151-200
Specificity :	MVK Polyclonal Antibody detects endogenous levels of MVK protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 42kD

Cell Pathway : Terpenoid backbone biosynthesis;

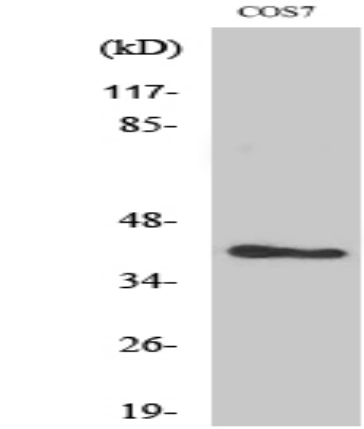
Background : This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized 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],

Function : 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.,onl

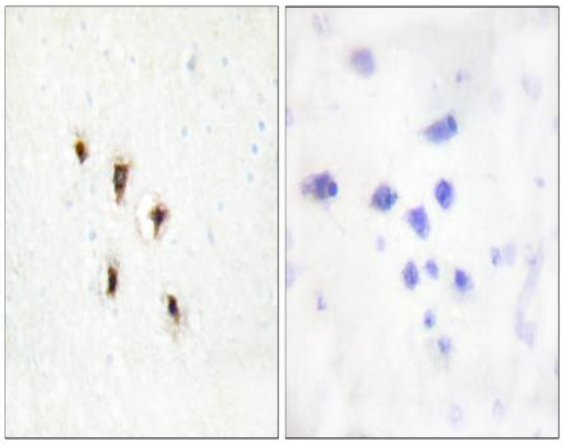
Subcellular Location : Cytoplasm . Peroxisome .

Expression : Brain,Hepatoma,Skin,Testis,

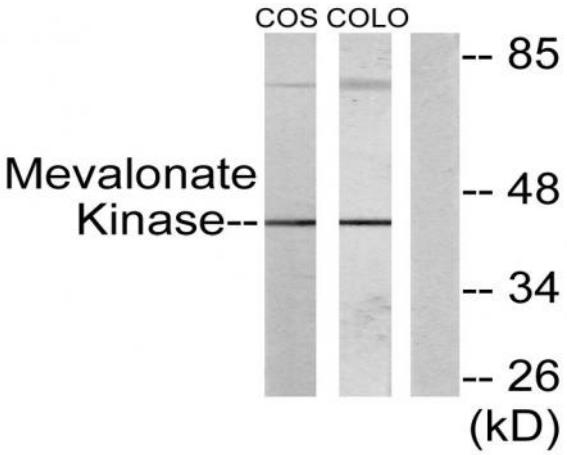
Products Images



Western Blot analysis of various cells using MVK Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Mevalonate Kinase Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 and COLO205 cells, using Mevalonate Kinase Antibody. The lane on the right is blocked with the synthesized peptide.