
Product Name: KD-Validated Mevalonate Kinase Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01012**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 42.5kDa

Antigen Information

Gene Name	MVK
Alternative Names	Mevalonate Kinase; MK; LRBP; LH Receptor mRNA-Binding Protein; EC 2.7.1.36; Mevalonate Kinase (Mevalonic Aciduria); Mevalonate Kinase 1; Mevalonic Aciduria; POROK3; MVLK
Gene ID	4598.0
SwissProt ID	Q03426
Immunogen	A synthesized peptide derived from human MVK

Background

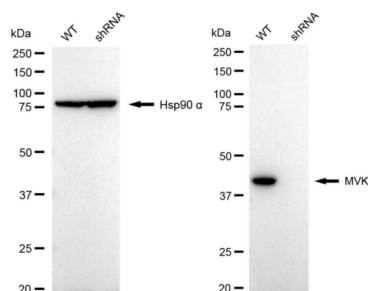
This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in

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]

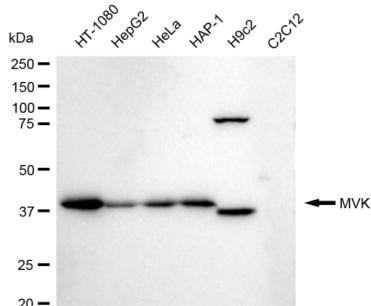
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism

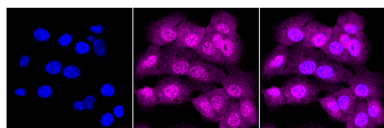
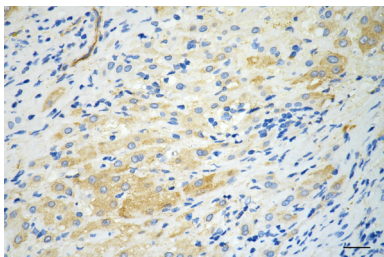
Image Data



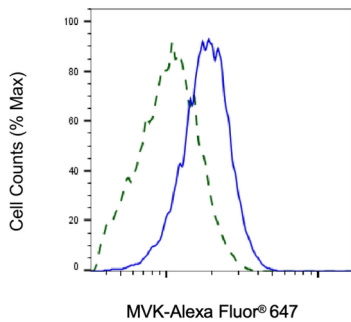
Western blotting analysis using MVK antibody (KVA01012). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MVK antibody (KVA01012, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



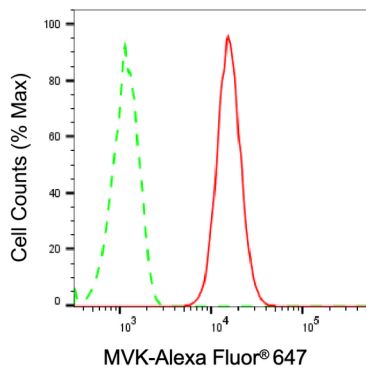
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using MVK antibody (KVA01012, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HT-1080 cells with MVK antibody (KVA01012, 1:1,000). Nuclei were stained blue with DAPI; MVK was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of MVK knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MVK antibody (KVA01012, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MVK expression in HT-1080 cells using MVK antibody (KVA01012, 1:2,000). Green, isotype control; red, MVK.