10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-MVK Antibody

Catalog # AP53356

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q03426
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42451

Additional Information

Gene ID	4598
Other Names	Mevalonate kinase; MK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MVK. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

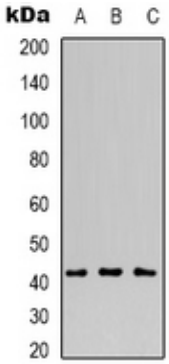
Protein Information

Name	MVK (HGNC:7530)
Function	Catalyzes the phosphorylation of mevalonate to mevalonate 5- phosphate, a key step in isoprenoid and cholesterol biosynthesis (PubMed:11278915, PubMed:18302342, PubMed:9325256, PubMed:9392419).
Cellular Location	Cytoplasm. Peroxisome {ECO:0000250|UniProtKB:P17256}

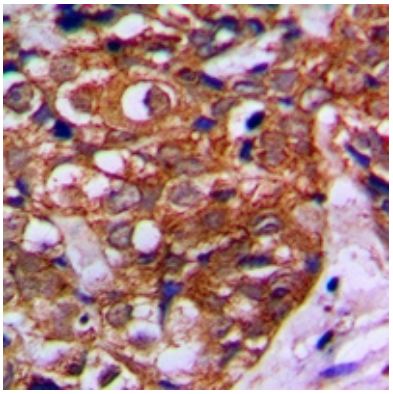
References

Schafer B.L.,et al.J. Biol. Chem. 267:13229-13238(1992).
Graef E.,et al.Oncogene 9:81-87(1994).
Houten S.M.,et al.Eur. J. Hum. Genet. 9:253-259(2001).
Houten S.M.,et al.Eur. J. Hum. Genet. 9:651-651(2001).
Hogenboom S.,et al.J. Cell Sci. 117:631-639(2004).

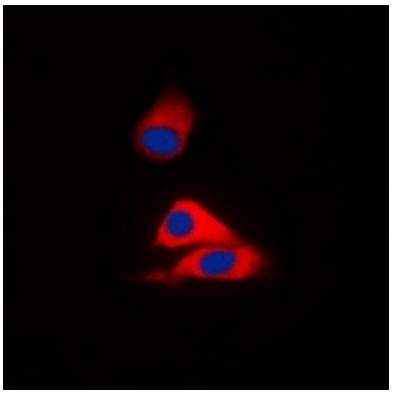
Images



Western blot analysis of MVK expression in Raji (A), HepG2 (B), COS7 (C) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 42 kD)



Immunohistochemical analysis of MVK staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of MVK staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).