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MVP Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8169a

Product Information

Application	WB, E
Primary Accession	Q03426
Other Accession	NP_000422
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5430
Calculated MW	42451
Antigen Region	17-47

Additional Information

Gene ID	4598
Other Names	Mevalonate kinase, MK, MVK
Target/Specificity	This MVK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-47 amino acids from the N-terminal region of human MVK.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MVP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

Background

MVK 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 MVK results in mevalonic aciduria.

References

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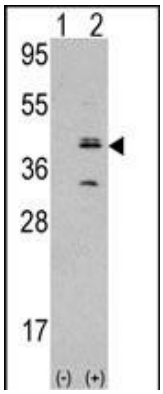
Simon, A., et al., Neurology 62(6):994-997 (2004).
Houten, S.M., et al., J. Biol. Chem. 278(8):5736-5743 (2003).
Houten, S.M., et al., Eur. J. Hum. Genet. 11(2):196-200 (2003).

Images



Western blot analysis of MVP (arrow) using rabbit polyclonal MVP Antibody (N-term) (Cat. #AP8169a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MVK gene (Lane 2).