

Major vault protein Recombinant Protein | MVP recombinant protein

Recombinant Human Major vault protein

CATALOG # AAA117248	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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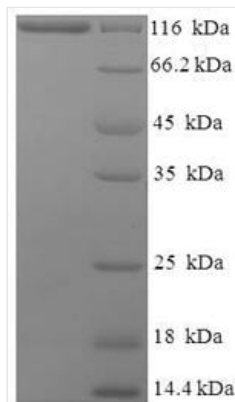
PRODUCT SYNONYMS

Major vault protein; Recombinant Human Major vault protein; Lung resistance-related protein; MVP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-893aa; Full Length of Mature Protein
Sequence	ATEEFIIRIP PYHYIHVLDQ NSNVSERVEVG PKTYIRQDNE RVLFPMMRV TVPPRHYCTV ANPVSQDAQG LVLFDVTGQV RLRHADLEIR LAQDPFPLYP GEVLEKDITP LQVVLPTAL HLKALLDFED KDGDQVAVAGD EWLFEGPGTY IPRKEVEVVE IIQATIIRQN QALRLRARKE CWDKRGKERV TGEWLVTTV GAYLPAVFEE VLDLVDVIL TEKTALHLRA RRNFRDFRGV SRRTGEEWLV TVQDTEAHVP DVHEEVLGVV PITTGLPHNY CVILDPVGPD GKNQLGQKRV VKGEKSFFLQ PGEQLEQGIQ DVYVLSEQQG LLLRALQPLE EGEDEEKVSH QAGDHWLIRG PLEYVPSAKV EVVEERQAIP LDENEGIVVQ DVKTGKVRV IGSTYMLTQD EVLWEKELPP GVEELLNKGQ DPLADRGEKD TAKSLQPLAP RNKTRVVSYP VPHNAVQVY DYREKRARVV FGPELVSLGP EEQFTVLSLS AGRPKRPHAR RALCLLLGPD FFTDVITET ADHARLQLQL AYNWHFEVND RKDPQETAKL FSVPDFVGDA CKAIASRVRG AVASVTFDDF HKNSARIIRT AVFGFETSEA KGPDMALPR PRDQAVFPQN GLVVSSVDVQ SVEPVDQRTD DALQRSVQLA IEITTSQEA AAKHEAQRLE QEARGRLERQ KILDQSEAEK ARKELLELEA LSMAVESTGT AKAEAESRAE AARIEGEGSV LQAKLKAQAL AIETEAELQR VQKVRELELV YARAQLELEV SKAQQLAEVE VKKFKQMTA IGPSTIRDLA VAGPEMQVKL LQSLGLKSTL ITDGSTPINL FNTAFGLLGM GPEGQPLGRR VASGPSPGEG ISPQSAQAPQ APGDNHVPV LR
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MVP recombinant protein	Required for normal vault structure. Vaults are multi-subunit structures that may act as scaffolds for proteins involved in signal transduction. Vaults may also play a role in nucleo-cytoplasmic transport. Down-regulates INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.
Product Categories/Family for MVP recombinant protein	Transport
References	The drug resistance-related protein LRP is the human major vault protein.Scheffer G.L., Wijngaard P.L.J., Flens M.J., Izquierdo M.A., Slovak M.L., Pinedo H.M., Meijer C.J.L.M., Clevers H.C., Scheper R.J.Nat. Med. 1:578-582(1995) Scheffer G.L. Cloning and initial analysis of the human multidrug resistance-related MVP/LRP gene promoter.Lange C., Walther W., Schwabe H., Stein U.Biochem. Biophys. Res. Commun. 278:125-133(2000) A small upstream open reading frame causes inhibition of human major vault protein expression from a ubiquitous mRNA splice variant.Holzmann K., Ambrosch I., Elbling L., Micksche M., Berger W.FEBS Lett. 494:99-104(2001) Quadroni M., Potts A., Barblan J., Bienvenut W.V.Submitted (JAN-2005) to UniProtKB Vaults and telomerase share a common subunit, TEP1.Kickhoefer V.A., Stephen A.G., Harrington L., Robinson M.O., Rome L.H.J. Biol. Chem. 274:32712-32717(1999) PTEN associates with the vault particles in HeLa cells.Yu Z., Fotouhi-Ardakani N., Wu L., Maoui M., Wang S., Banville D., Shen S.-H.J. Biol. Chem. 277:40247-40252(2002) The major vault protein is a novel substrate for the tyrosine phosphatase SHP-2 and scaffold protein in epidermal growth factor signaling.Kolli S., Zito C.I., Mossink M.H., Wiemer E.A.C., Bennett A.M.J. Biol. Chem. 279:29374-29385(2004) A novel human zinc finger protein ZNF540 interacts with MVP and inhibits transcriptional activities of the ERK signal pathway.Xiang Z., Yuan W., Luo N., Wang Y., Tan K., Deng Y., Zhou X., Zhu C., Li Y., Liu M., Wu X., Li Y.Biochem. Biophys. Res. Commun. 347:288-296(2006) Crosstalk between Src and major vault protein in epidermal growth factor-dependent cell signalling.Kim E., Lee S., Mian M.F., Yun S.U., Song M., Yi K.-S., Ryu S.H., Suh P.-G.FEBS J. 273:793-804(2006) The major vault protein is responsive to and interferes with interferon-gamma-mediated STAT1 signals.Steiner E., Holzmann K., Pirker C., Elbling L., Micksche M., Sutterluety H., Berger W.J. Cell Sci. 119:459-469(2006) Regulatory role of human AP-endonuclease (APE1/Ref-1) in YB-1-mediated activation of the multidrug resistance gene MDR1.Chattopadhyay R., Das S., Maiti A.K., Boldogh I., Xie J., Hazra T.K., Kohno K., Mitra S., Bhakat K.K.Mol. Cell. Biol. 28:7066-7080(2008) A quantitative atlas of mitotic phosphorylation.Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Comparative large-scale characterisation of plant vs. mammal proteins reveals similar and idiosyncratic N-alpha acetylation features.Bienvenut W.V., Sumpton D., Martinez A., Lilla S., Espagne C., Meinell T., Giglione C.Mol. Cell. Proteomics 11:M111.015131-M111.015131(2012) N-terminal acetylome analyses and functional insights of the N-terminal acetyltransferase NatB.Van Damme P., Lasa M., Polevoda B., Gazquez C., Elosegui-Artola A., Kim D.S., De Juan-Pardo E., Demeyer K., Hole K., Larrea E., Timmerman E., Prieto J., Arnesen T., Sherman F., Gevaert K., Aldabe R.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) Solution structure of a two-repeat fragment of major vault protein.Kozlov G., Vavelyuk O., Minailiuc O., Banville D., Gehring K., Ekiel I.J. Mol. Biol. 356:444-452(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	645912958
NCBI GeneID	9961
NCBI Accession #	NP_001280133.1
NCBI GenBank Nucleotide #	NM_001293204.1
UniProt Accession #	Q14764 ; Q96BG4 ; Q9BPW6 ; Q9BQT1 ; Q9UBD1
Molecular Weight	115.2 kDa
NCBI Official Full Name	major vault protein isoform 2
NCBI Official Synonym Full Names	major vault protein
NCBI Official Symbol	MVP
NCBI Official Synonym Symbols	LRP; VAULT1

NCBI Protein Information	major vault protein
UniProt Protein Name	Major vault protein
UniProt Gene Name	MVP
UniProt Synonym Gene Names	LRP; MVP
UniProt Entry Name	MVP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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