

Product datasheet for **AM32041SU-N**

MVP Mouse Monoclonal Antibody [Clone ID: MVP-37]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MVP-37
Applications:	IHC, WB
Recommended Dilution:	Western blotting: 1/50 dilution (chemiluminescence). Immunohistochemistry: Use ~1/20-1/50 dilution on 4% paraformaldehyde fixed cytospin preparations or frozen tissue sections. <i>Pretreatment:</i> 10 min 20 mM Glycine (pH 7.5) and 10 min 6 N Guanidine Hydrochloride in 50 mM Tris-HCl, pH 7.5 (See Schroeijers et al., 2000). Immunohistochemistry on Paraffin-Embedded Tissue Sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	This Monoclonal antibody MVP-37 reacts with an internal epitope of MVP/LRP (p110), which is strongly overexpressed in various Human non-P-glycoprotein MDR tumor cell lines, accordingly to an increase in the number of vault particles.
Formulation:	State: Supernatant State: Serum Free Culture Supernatant Stabilizer: 0.7% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	major vault protein
Database Link:	Entrez Gene 9961 Human Q14764



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Background:

MVP is identical to lung-resistance related protein (LRP). Vaults are large ribonucleoprotein particles (RNPs) present in all eukaryotic cells. They have a complex morphology, including several small molecules of RNA, but a single protein species. The MVP accounts for >70% of their mass. Their shape is reminiscent of the nucleopore central plug. Amino acid 241-280 of human estrogen receptor (ER), (site of nuclear localization signal sequence), is mapped to be the site of interaction between ER and MVP. Treatment of cells with estradiol increases the amount of MVP in nuclear extract. Anti-estrogen 1C1182 shows no effect. The hormone-dependent interaction of vaults with ER is prevented in vitro by sodium molybdate. Antibodies to progesterone and glucocorticoid receptors are also able to co-immunoprecipitate the MVP. LRP is a protein overexpressed in many neoplastic tissues and cell lines. Expression of LRP predicts a poor response to chemotherapy. This 104-kD protein is the major vault protein (MVP) also described as the lung resistance protein (LRP) and has shown to interact with the estrogen receptor. The protein is part of a very large vault ribonucleoprotein complex present in all eukaryotic cells and its structure and protein composition is highly conserved. Because of the size, shape, and protein and RNA composition of this complex the particles are different from other ribonucleoproteins.

Synonyms:

MVP, LRP