



PRODUCT DATA SHEET

Product: Anti-LRP/MVP mAb, clone 1032

Cat. No.: MC-603 (100 µg)

Background:

Major vault protein (MVP) is identical to lung-resistance related protein (LRP). Its shape is reminiscent of the nucleopore central plug. Treatment of cells with estradiol increases the amount of MVP in nuclear extract. 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. Reportedly, the lung-resistance related protein (LRP) is identical to human MVP. LRP is overexpressed in many neoplastic tissues and cell lines indicating a poor response to chemotherapy.

Molecular Weight of Antigen:

104 kDa – 110 kDa

Species Reactivity:

Human and rat. Other species not tested.

Ig Isotype:

Mouse IgG_{1/k}

Immunogen:

Proteins precipitated with AER317 from the phosphocellulose column flow through of extract of human breast cancer MCF-7 cells.

Epitope:

Not determined.

Cellular Localization:

Cytoplasmic

Positive Control:

SKBR-3 cells, breast tumors.

Format:

0.5 mL of monoclonal antibody at 200 µg/mL in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

Storage:

Store at 4 °C

Applications and Suggested Dilutions:

- Flow cytometry
- Immunoprecipitation: (Native verified) Use Protein G; antibody at 2 µg/mg of protein lysate.
- Immunohistochemistry: (Formalin/paraffin) Use at 1:50-1:100 for 30 minutes at room temperature (RT). Staining of formalin-fixed tissue REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes.
- Western blot: Use at 1-2 µg/mL for 2 hrs at RT.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.