

## 36-3670: Anti-Major Vault Protein (MVP) Monoclonal Antibody(Clone: 1014)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	1014
<b>Application :</b>	FACS,IF
<b>Reactivity :</b>	Human
<b>Gene :</b>	MVP
<b>Gene ID :</b>	9961
<b>Uniprot ID :</b>	Q14764
<b>Alternative Name :</b>	Lung resistance-related protein (LRP); Major Vault Protein; MVP; VAULT1
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	proteins precipitated from human breast cancer MCF-7 cells

### Description

Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP). 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. 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 estrogen, progesterone and glucocorticoid receptors are able to co-immunoprecipitate the MVP. MVP is overexpressed in many neoplastic tissues and cell lines. Expression of MVP predicts a poor response to chemotherapy.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);

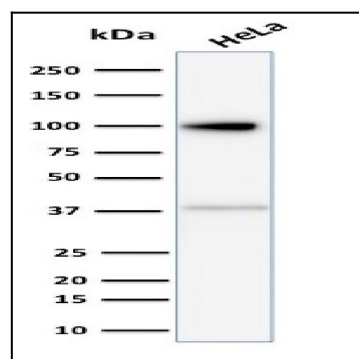


Fig. 1: Western Blot Analysis of human HeLa cell lysate using Major Vault Protein (MVP) Mouse Monoclonal Antibody (Clone 1014).

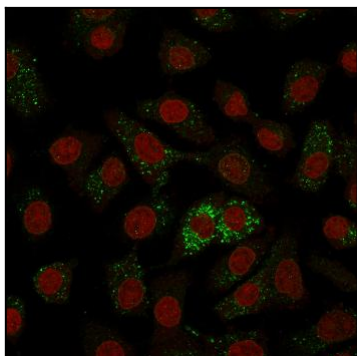


Fig. 2: Immunofluorescence Analysis of A549 cells labeling MVP with MVP Monoclonal Antibody (Clone 1014) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

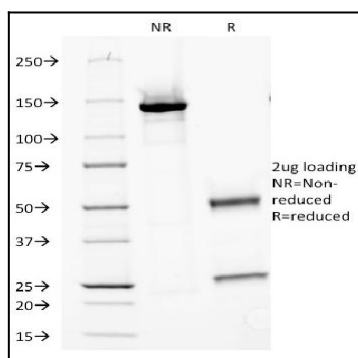


Fig. 3: SDS-PAGE Analysis Purified MVP Monoclonal Antibody (Clone 1014). Confirmation of Purity and Integrity of Antibody.