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

Clonality :	Monoclonal
Clone Name :	1014
Application :	FACS,IF
Reactivity :	Human
Gene :	MVP
Gene ID :	9961
Uniprot ID :	Q14764
Alternative Name :	Lung resistance-related protein (LRP); Major Vault Protein; MVP; VAULT1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	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 plÂµg. 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

Amount :	20 µg / 100 µg
Content :	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.
Storage condition :	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);

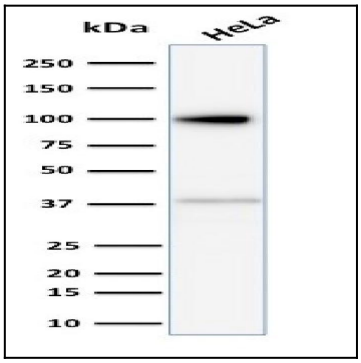


Fig. 1: Western Blot Analysis of human HeLa cell lysate using Major Vault Protein (MVP) Mouse Monoclonal Antibody (Clone 1014).

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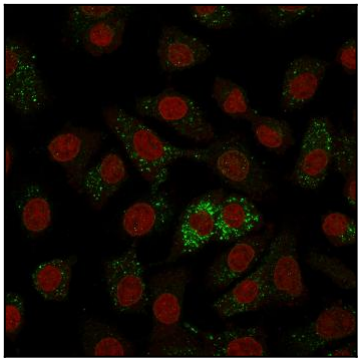


Fig. 2: Immunofluorescence Analysis of A549 cells labeling MVP with MVP Monoclonal Antibody (Clone 1014) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

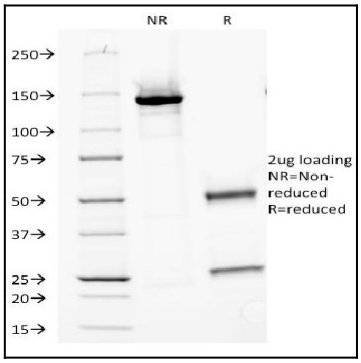


Fig. 3: SDS-PAGE Analysis Purified MVP Monoclonal Antibody (Clone 1014). Confirmation of Purity and Integrity of Antibody.

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