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DATA SHEET

Mouse Anti-Major Vault Protein (MVP) [1032]: MC0075

Intended Use: For Research Use Only

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.

Specifications

Clone:	1032
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, rat
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt. ICC/IF, IP, WB

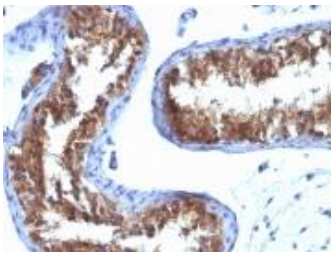
Package:

Description	Catalog No.	Size
Major Vault Protein (MVP) Concentrated	MC0075	1 ml

IHC Procedure*

Positive Control Tissue:	MCF-7/HeLa, breast tumors
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human testicular carcinoma stained with anti-MVP using DAB

References:

1. Characterisation of adipocyte-derived extracellular vesicle subtypes identifies distinct protein and lipid signatures for large and small extracellular vesicles. Durcin M, et al. J Extracell Vesicles 6:1305677, 2017.
2. Knock-down of ubiquitin-specific protease 22 by micro-RNA interference inhibits colorectal cancer growth. Xu H, et al. Int J Colorectal Dis, 2011.
3. Tumor expression of major vault protein is an adverse prognostic factor for radiotherapy outcome in oropharyngeal carcinoma. Silva P, et al. Int J Radiat Oncol Biol Phys 69:133-40, 2007.

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