Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium

Dilution advice

- Immunoblot (1-2 μ g/ml).
- Immunofluorescence ($0,5-1,0 \mu g/ml$). \triangleright
- Immunohistology (1-2 µg/ml for 30-60 minutes at RT; information on a suitable antigen retrieval method for \triangleright staining of formalin-fixed tissues is unavailable to date).

Positive control

MCF-7 or HeLa cells. Breast cancer.

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Applications

Demonstration of major vault protein and its interaction with estrogen receptor.

Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	-	+

azide.

Positive: human.

Species reactivity

Major vault protein

(MVP) 1027

IgM-κ

A BALB/c mouse was immunized with affinity purified nuclear extract proteins. Fusion partner: Sp2/0-Ag14.

Specifications

Mouse mAb to

Clone Isotype

Source

1027 Is specific for the major vault protein, a 104-kDa highly conserved protein interacting with estrogen receptor. It is one of a series of four mAbs which recognize different epitopes of the protein. Major vault proteins 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.

Datasheet



for MVP (FITC)



Datasheet



References

- Abbondanza, C. et al, *J. Cell Biol.* 141, 1301-1310 (1998).
 Den Boer, M.L. et al. *Blood* 91, 2092-2098 (1998).