

Product datasheet

anti-Major vault protein (MVP) mouse monoclonal, 1032, purified

Short overview

Cat. No.	691525
Quantity	1 ml (100 µg/ml)
Concentration	100 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 kappa
Clone	1032
Immunogen	Affinity purified nuclear extract proteins
Formulation	PBS with 0.02% sodium azide
UniprotID	Q14764 (Human)
Synonym	Major vault protein, MVP, Lung resistance-related protein, MVP, LRP
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	ICC/IF, IHC, IP, WB
Reactivity	Human

Applications

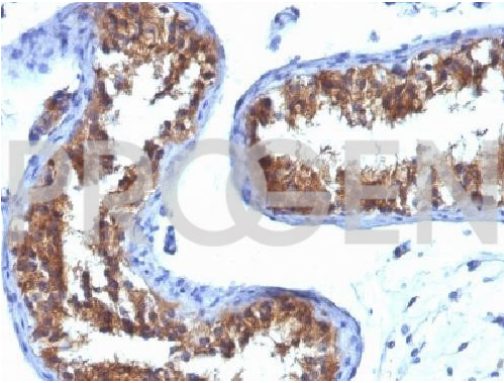
Immunocytochemistry (ICC)	1:100-1:200 (0.5-1.0 µg/ml)
Immunohistochemistry (IHC) - frozen	1:50-1:100 (1-2 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:50-1:100 (1-2 µg/ml; microwave treatment in 10 mM Tris with 1 mM EDTA pH 9.0 recommended)
Immunoprecipitation (IP)	Assay dependent
Western Blot (WB)	1:50-1:100 (1-2 µg/ml)

Background

1032 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.

Positive control: MCF-7 or HeLa cells, breast cancer.

Product images



Human testicular