SERPINB5 / Maspin (Tumor Suppressor & Epithelial Biomarker) Antibody

Mouse Monoclonal Antibody [Clone SERPINB5/4975]

Catalog No	Format	Size
5268-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5268-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5268-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

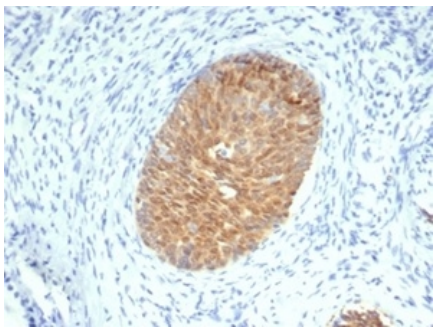
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

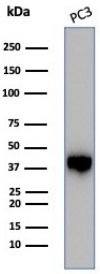
Clone	SERPINB5/4975
Gene Name	SERPINB5
Immunogen	Recombinant fragment of human SERPINB5 protein (around aa1-200) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	42kDa
Cellular Localization	Extracellular space, Secreted
Species Reactivity	Human
Positive Control	Squamous epithelium or gastrointestinal tissue.

**Optimal dilution for a specific application should be determined.*

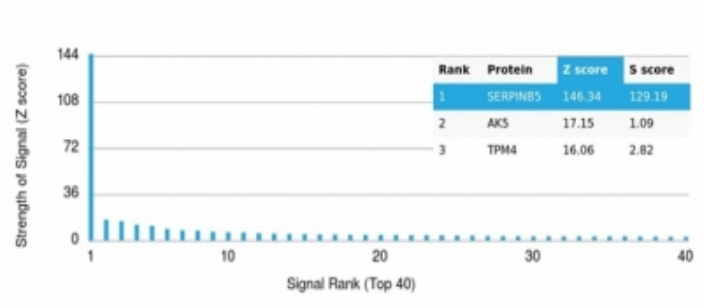
Product Images for SERPINB5 / Maspin (Tumor Suppressor & Epithelial Biomarker) Antibody



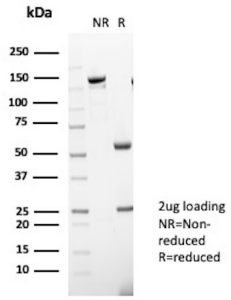
FFPE analysis of human cervical squamous cell carcinoma stained with SERPINB5 / Maspin Mouse Monoclonal Antibody (SERPINB5/4975). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



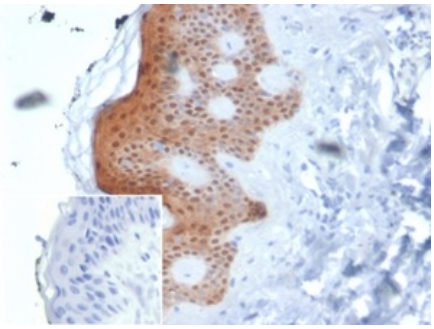
Western blot analysis of PC3 cell lysate using SERPINB5 / Maspin Mouse Monoclonal Antibody (SERPINB5/4975).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing SERPINB5 / Maspin Mouse Monoclonal Antibody (SERPINB5/4975). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified Serpin B5 Mouse Monoclonal Antibody (SERPINB5/4975). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human skin stained with SERPINB5 / Maspin Mouse Monoclonal Antibody (SERPINB5/4975). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Maspin is structurally a serine protease inhibitor (serpin) that was initially isolated from normal human mammary epithelial cells. Serpins are a family of proteins that inhibit Chymotrypsin-like serine proteinases. Serpins control activated proteinases and several are involved in the regulation of cell death. Maspin is found in the extracellular matrix and at the plasma membrane. Maspin has been shown to act at the cell surface to block cell motility and inhibit invasion of breast and prostate cancer cells. Maspin is present in normal mammary epithelial cells but is absent in many tumor cell lines, yet no major structural alterations of the Maspin gene have been identified in tumor cells. Similarly, Maspin is expressed in normal prostate cells and downregulated or absent in prostate tumor cells.

Supplied As

200ug/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 and Stability

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. No MSDS required.

Research Areas

Angiogenesis, Apoptosis, Autophagy

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.