

# **Human Serpin B5/Maspin Antibody**

Monoclonal Rat IgG<sub>2B</sub> Clone # 305339 Catalog Number: MAB2218

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Serpin B5/Maspin in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Serpin A5, B6, B8 or B9 is observed.		
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 305339		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Serpin B5 Met1-Pro375 Accession # P36952		
Formulation	rmulation Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS		

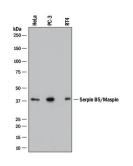
## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	2 μg/mL	See Below	
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin B5/Maspin, see our available Western blot detection antibodies	
Knockout Validated	Serpin B5/Maspin is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in Serpin B5/Maspin knockout HeLa cell line		

## DATA

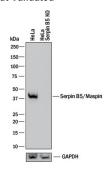
### Western Blot



#### Detection of Human Serpin B5/Maspin by Western Blot.

Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, PC-3 human prostate cancer cell line, and RT-4 human bladder carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Rat Anti-Human Serpin B5/Maspin Monoclonal Antibody (Catalog # MAB2218) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serpin B5/Maspin at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

#### **Knockout Validated**



#### Western Blot Shows Human Serpin B5/Maspin Specificity by Using Knockout Cell Line.

Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and Serpin B5/Maspin knockout HeLa cell line (KO). PVDF membrane was probed with 2 μg/mL of Rat Anti-Human Serpin B5/Maspin Monoclonal Antibody (Catalog # MAB2218) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serpin B5/Maspin at approximately 40 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Serpin B5, also known as Maspin, is a secreted member of the Serpin family although it has no known serine protease inhibitor activity. It is produced by mammary epithelial cells and functions as a tumor suppressor. Serpin B5 is a valuable biomarker of tumor progression and overall prognosis. The amino acid sequence of human Serpin B5 is 99%, 92%, 89%, 88% and 64% identical to that of chimpanzee, dog, mouse, rat and chicken.

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