

Anti-MASPIN/SERPINB5 Antibody Picoband™

Catalog Number: PB9356

About SERPINB5

SERPINB5 is also known as PI5 or maspin. Maspin (mammary serine protease inhibitor) is a protein that in humans is encoded by the SERPINB5 gene. Maspin is expressed in the skin, prostate, testis, intestine, tongue, lung, and the thymus. Maspin is a member of the serpin superfamily of serine protease inhibitors.[1] The primary function of most members of this family is to regulate the breakdown of proteins by inhibiting the catalytic activity of proteinases. Through this mechanism of action, serpins regulate a number of cellular processes including phagocytosis, coagulation, and fibrinolysis.

Overview

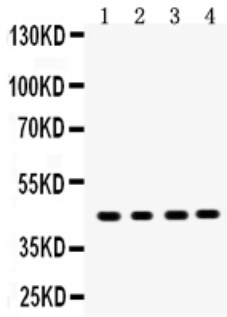
Product Name	Anti-MASPIN/SERPINB5 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MASPIN/SERPINB5 Antibody Picoband™ catalog # PB9356. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P36952

Technical Details

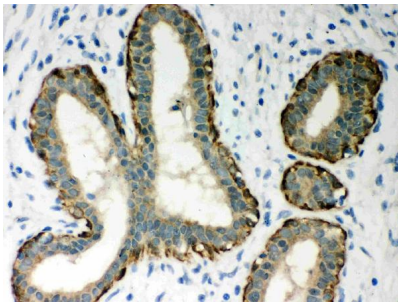
Immunogen	E.coli-derived human MASPIN recombinant protein (Position: M1-A350). Human MASPIN shares 88% and 89% amino acid (aa) sequence identity with mouse and rat MASPIN, respectively.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunocytochemistry , 0.5-1ug/ml, Human, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

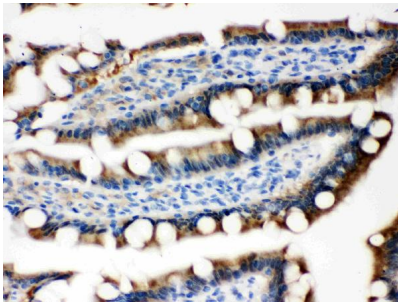
Anti-MASPIN/SERPINB5 Antibody Picoband™ (PB9356) Images



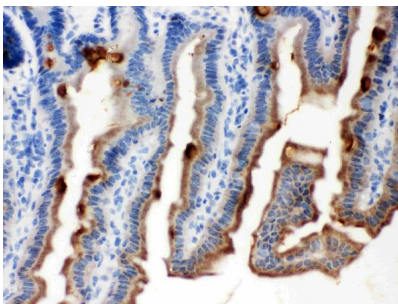
Anti-MASPIN Picoband antibody, PB9356, Western blotting
All lanes: Anti MASPIN (PB9356) at 0.5ug/ml
Lane 1: Mouse Intestine Tissue Lysate at 50ug
Lane 2: Human Placenta Tissue Lysate at 50ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Lane 4: MM231 Whole Cell Lysate at 40ug
Predicted bind size: 42KD
Observed bind size: 42KD



Anti-MASPIN Picoband antibody, PB9356, IHC(P)
IHC(P): Human Mammary Cancer Tissue



Anti-MASPIN Picoband antibody, PB9356, IHC(P)
IHC(P): Rat Intestine Tissue



Anti-MASPIN Picoband antibody, PB9356, IHC(P)
IHC(P): Mouse Intestine Tissue

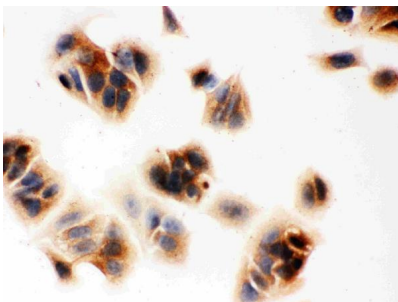


Figure 5. IHC analysis of MASPIN using anti-MASPIN antibody (PB9356).

MASPIN was detected in immunocytochemical section of MCF-7 Cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1ug/ml rabbit anti-MASPIN Antibody (PB9356) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at

37°C. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

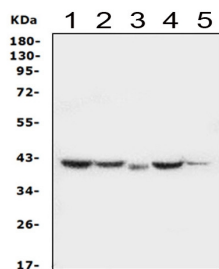


Figure 6. Western blot analysis of MASPIN using anti-MASPIN antibody (PB9356).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat small intestine tissue lysates,

Lane 2: mouse small intestine tissue lysates,

Lane 3: human placenta tissue lysates,

Lane 4: human MDA-MB-231 whole cell lysates,

Lane 5: human MCF-7 whole cell lysates,

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MASPIN antigen affinity purified polyclonal antibody (Catalog # PB9356) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MASPIN at approximately 42KD. The expected band size for MASPIN is at 42KD.

3 Publications Citing This Product

1. PubMed ID: 10.3892/or_00001069, Effects of shRNA targeting maspin on invasion of gastric carcinoma SGC7901 cell line
2. PubMed ID: 21109985, Yang Y, Shi H, Li X, Yi Y. Oncol Rep. 2011 Jan;25(1):259-65. Effects Of Shrna Targeting Maspin On Invasion Of Gastric Carcinoma Sgc7901 Cell Line.
3. PubMed ID: 26622898, Expression and clinical significance of microRNA-21, maspin and vascular endothelial growth factor-C in bladder cancer

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