

Anti-MASPIN Picoband Antibody
Catalog # ABO12047

Specification

Anti-MASPIN Picoband Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	P36952
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Serpin B5(SERPINB5) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MASPIN Picoband Antibody - Additional Information

Gene ID 5268

Other Names

Serpin B5, Maspin, Peptidase inhibitor 5, PI-5, SERPINB5, PI5

Calculated MW

42100 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Secreted, extracellular space.

Tissue Specificity

Normal mammary epithelial cells.

Protein Name

Serpin B5

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

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.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the serpin family. Ov-serpin subfamily.

Anti-MASPIN Picoband Antibody - Protein Information

Name SERPINB5

Synonyms PI5

Function

Tumor suppressor. It blocks the growth, invasion, and metastatic properties of mammary tumors. As it does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity.

Cellular Location

Secreted, extracellular space.

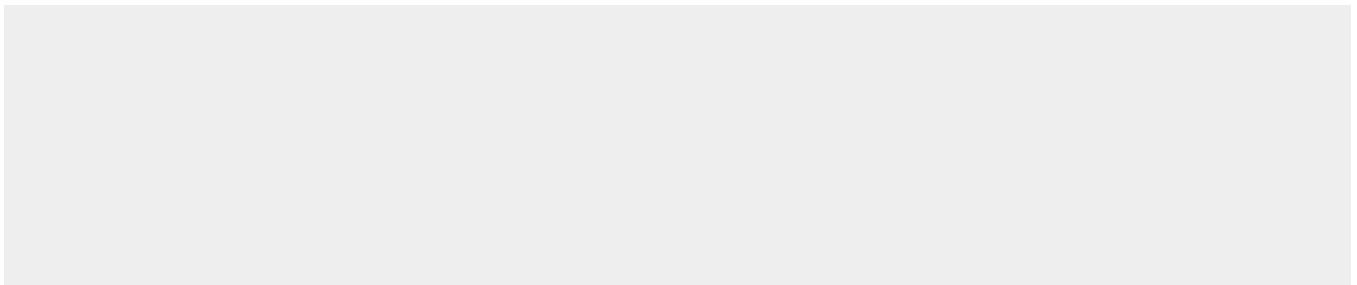
Tissue Location

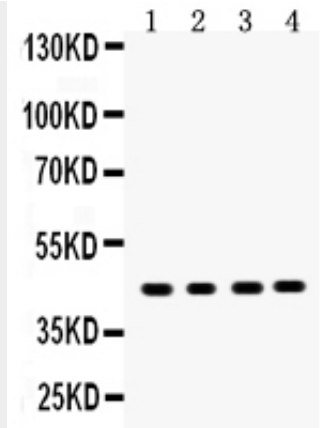
Normal mammary epithelial cells.

Anti-MASPIN Picoband Antibody - Protocols

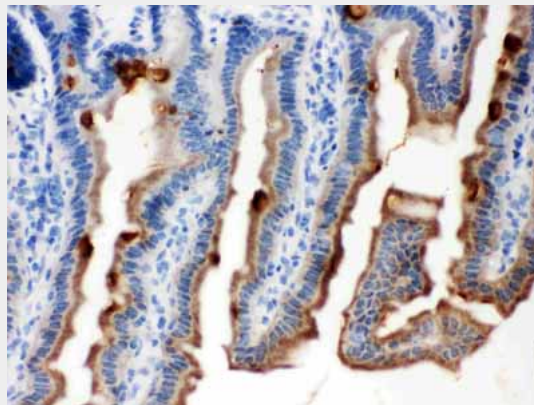
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

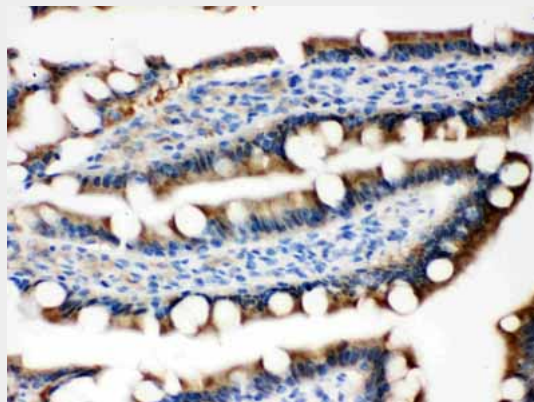
Anti-MASPIN Picoband Antibody - Images



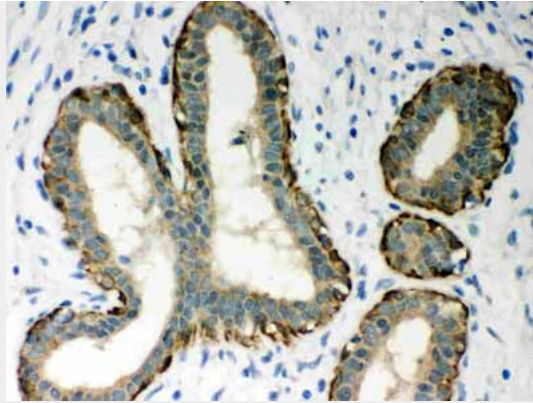
Anti- MASPIN Picoband antibody, ABO12047, Western blotting All lanes: Anti MASPIN (ABO12047) at 0.5ug/ml Lane 1: Mouse Intestine Tissue Lysate at 50ug Lane 2: Human Placenta Tissue Lysate at 50ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: MM231 Whole Cell Lysate at 40ug Predicted bind size: 42KD Observed bind size: 42KD



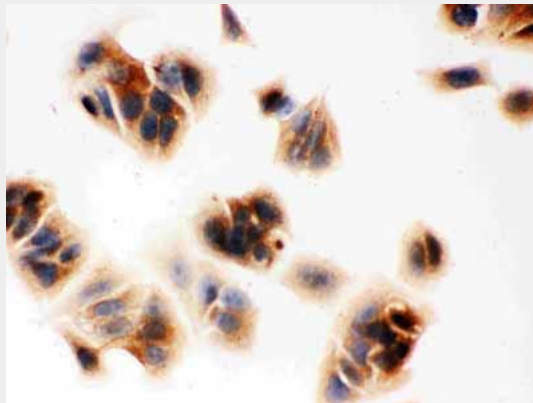
Anti- MASPIN Picoband antibody, ABO12047, IHC(P) IHC(P): Mouse Intestine Tissue



Anti- MASPIN Picoband antibody, ABO12047, IHC(P) IHC(P): Rat Intestine Tissue



Anti- MASPIN Picoband antibody, ABO12047, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti- MASPIN Picoband antibody, ABO12047, ICCICC: MCF-7 Cell

Anti-MASPIN Picoband Antibody - Background

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.