

Anti-MASPIN Picoband Antibody

Catalog # ABO12047

Specification

Anti-MASPIN Picoband Antibody - Product Information

ApplicationWB, IHC-P, ICCPrimary AccessionP36952HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionB5(SERPINB5) detection. Tested with WB, IHC-P, ICC inHuman;Mouse;Rat.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 NaN3.

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 r°Constitution, 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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-MASPIN Picoband Antibody - Images





Anti- MASPIN Picoband antibody, ABO12047, Western blottingAll lanes: Anti MASPIN (ABO12047) at 0.5ug/mlLane 1: Mouse Intestine Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4: MM231 Whole Cell Lysate at 40ugPredicted bind size: 42KDObserved 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 includingphagocytosis, coagulation, and fibrinolysis.