

Anti-Hsp47 Picoband Antibody
Catalog # ABO12016**Specification**

Anti-Hsp47 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P50454
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Serpin H1(SERPINH1) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

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

Anti-Hsp47 Picoband Antibody - Additional Information

Gene ID 871

Other Names

Serpin H1, 47 kDa heat shock protein, Arsenic-transactivated protein 3, AsTP3, Cell proliferation-inducing gene 14 protein, Collagen-binding protein, Colligin, Rheumatoid arthritis-related antigen RA-A47, SERPINH1, CBP1, CBP2, HSP47, SERPINH2

Calculated MW

46441 MW KDa

Application Details

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

Subcellular Localization

Endoplasmic reticulum lumen.

Protein Name

Serpin H1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human Hsp47 recombinant protein (Position: D247-L418). Human Hsp47 shares 97% amino acid (aa) sequence identity with both mouse and rat Hsp47.

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.

Anti-Hsp47 Picoband Antibody - Protein Information

Name SERPINH1

Synonyms CBP1, CBP2, HSP47, SERPINH2

Function

Binds specifically to collagen. Could be involved as a chaperone in the biosynthetic pathway of collagen.

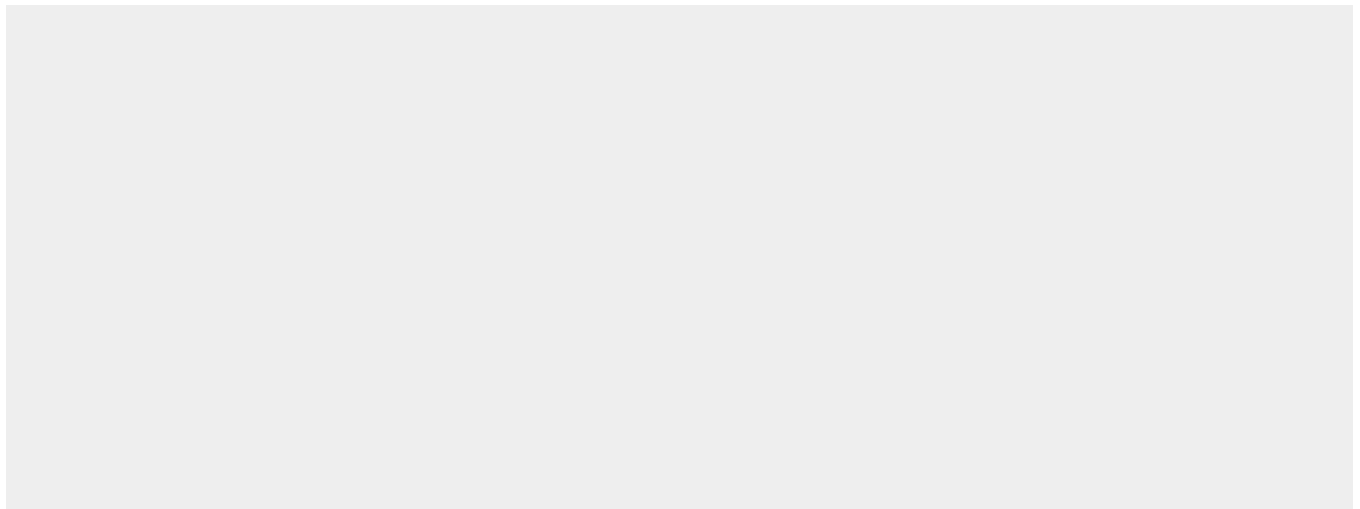
Cellular Location

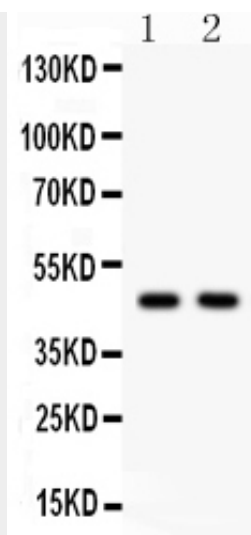
Endoplasmic reticulum lumen.

Anti-Hsp47 Picoband Antibody - Protocols

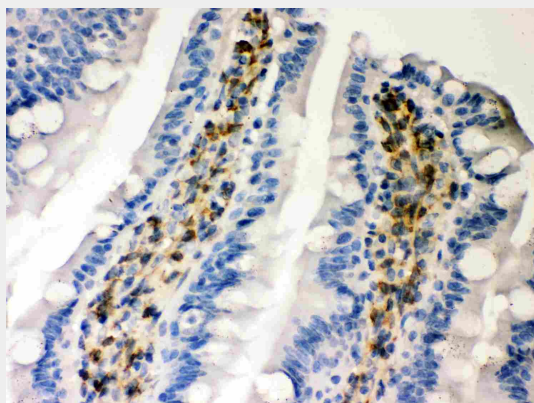
Provided below are standard protocols that you may find useful for product applications.

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

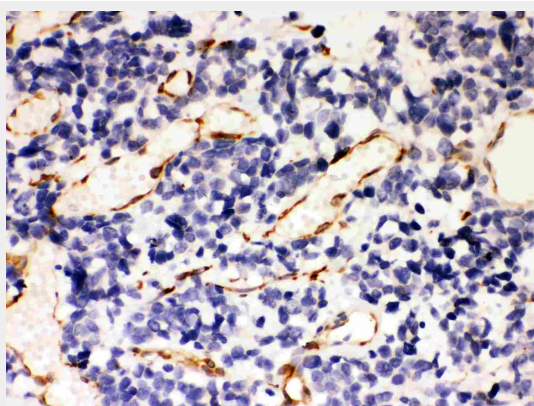
Anti-Hsp47 Picoband Antibody - Images



Anti- Hsp47 Picoband antibody, ABO12016, Western blottingAll lanes: Anti Hsp47 (ABO12016) at 0.5ug/mlLane 1: U87 Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugPredicted bind size: 47KDObserved bind size: 47KD



Anti- Hsp47 Picoband antibody, ABO12016, IHC(P)IHC(P): Rat Intestine Tissue



Anti- Hsp47 Picoband antibody, ABO12016, IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-Hsp47 Picoband Antibody - Background

Heat shock protein 47, also known as SERPINH1 or HSP47, is a serpin which serves as a human chaperone protein for collagen. This protein is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone

involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. It has been found that HSP47 monitors the integrity of the triple helix of type I procollagen at the ER/cis-Golgi boundary and, when absent, the rate of transit from the ER to the Golgi is increased and the helical structure is compromised.