

Anti-Hsp47 Picoband Antibody

Catalog # ABO12016

Specification

Anti-Hsp47 Picoband Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionP50454HostRabbitReactivityHuman, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit 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
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Subcellular Localization Endoplasmic reticulum lumen.

Protein Name Serpin H1

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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 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.

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 Cytomety
- <u>Cell Culture</u>

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.