

Anti-Hsp47 Picoband Antibody

Catalog # ABO12016

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Endoplasmic reticulum lumen.
Source	Eukaryota
Protein Name	Serpin H1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.
Belongs to the serpin family.

Sequence Similarities

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.

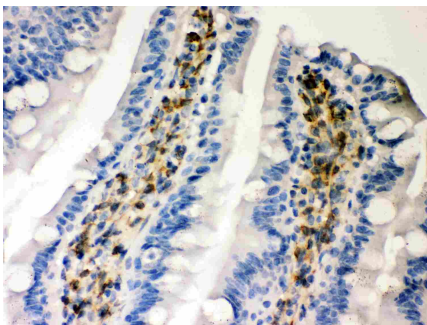
Background

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.

Images

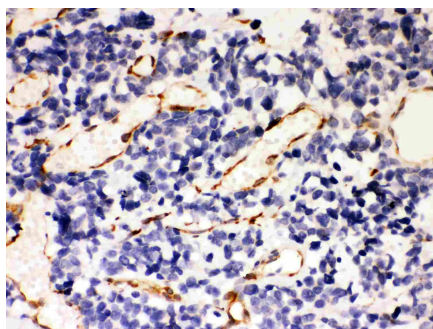


Anti- Hsp47 Picoband antibody, ABO12016, Western blotting
All lanes: Anti Hsp47 (ABO12016) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: A549 Whole Cell Lysate at 40ug
Predicted bind size: 47KD
Observed bind size: 47KD



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



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