

anti-Human, Rat Hsp47 Polyclonal Antibody | anti-Hsp47 antibody

Anti-Hsp47 Antibody

CATALOG # AAA46426	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
------------------------------	---------------------------------	---

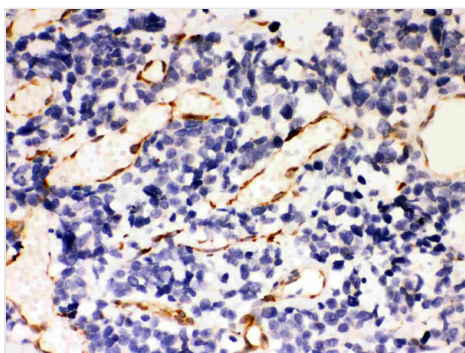
PRODUCT SYNONYMS

Hsp47; Polyclonal Antibody; Anti-Hsp47 Antibody; Serpin H1; 47 kDa heat shock protein; 47 kDa heat shock protein precursor; Arsenic transactivated protein 3; Arsenic-transactivated protein 3; AsTP 3; AsTP3; CBP 1; CBP 2; CBP1; CBP2; Cell proliferation-inducing gene 14 protein; Collagen binding protein 1; Collagen binding protein 2; Collagen binding protein; Collagen-binding protein 2; Collagen-binding protein; Colligen; Colligin 1; Colligin 2; Colligin; colligin-1; colligin-2; gp46; Heat shock protein 47; Heat-shock protein 47; HGNC 1547; Hsp 47; J6; OI10; PIG 14; PIG14; PPROM; Proliferation inducing gene 14; Proliferation inducing gene 14 protein; RA A47; RA-A47; Rheumatoid arthritis antigen A 47; rheumatoid arthritis antigen A-47; Rheumatoid arthritis related antigen RA A47; Rheumatoid arthritis-related antigen RA-A47; serine (or cysteine) proteinase inhibitor; clade H (heat shock protein 47); member 1; (collagen binding protein 1); member 2; (collagen-binding protein 2); Serine or cysteine proteinase inhibitor clade H member 1; Serine or cysteine proteinase inhibitor clade H member 2; SERPH_HUMAN; Serpin peptidase inhibitor clade H member 1; serpin peptidase inhibitor; Serpin peptidase inhibitor; clade H; SERPINH1; SERPINH2; anti-Hsp47 antibody

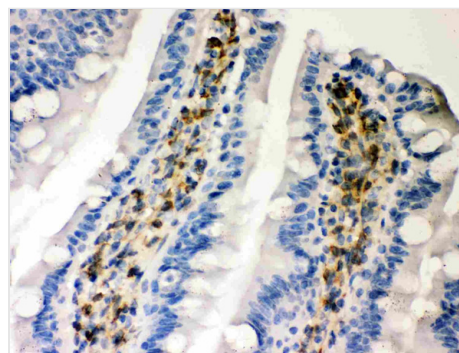
PRODUCT SPECIFICATIONS

Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	418
Applicable Applications for anti-Hsp47 antibody	IHC (Immunohistochemistry), WB (Western Blot)
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.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti- Hsp47 Picoband antibody, AAA46426, IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- Hsp47 Picoband antibody, AAA46426, IHC(P)IHC(P): Rat Intestine Tissue



WB (Western Blot)

Anti- Hsp47 Picoband antibody, AAA46426, Western blottingAll lanes: Anti Hsp47 (AAA46426) at 0.5ug/mlLane 1: U87 Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugPredicted bind size: 47KDObserved bind size: 47KD

ADDITIONAL INFORMATION

Related Product Information for anti-Hsp47 antibody	Description: Rabbit IgG polyclonal antibody for Serpin H1(SERPINH1) detection. Tested with WB, IHC-P in Human;Rat.
	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.
References	1. Christiansen, H. E., Schwarze, U., Pyott, S. M., AlSwaid, A., Al Balwi, M., Alrasheed, S., Pepin, M. G., Weis, M. A., Eyre, D. R., Byers, P. H. Homozygosity for a missense mutation in SERPINH1, which encodes the collagen chaperone protein HSP47, results in severe recessive osteogenesis imperfecta. Am. J. Hum. Genet. 86: 389-398, 2010. 2. "Entrez Gene: SERPINH1 serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)" 3. Dafforn T, Della M, Miller A (2001). "The molecular interactions of heat shock protein 47 (Hsp47) and their implications for collagen biosynthesis". J. Biol. Chem. 276(52): 49310-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	333360851
NCBI GeneID	871
NCBI Accession #	NP_001193943.1
NCBI GenBank Nucleotide #	NM_001207014.1
UniProt Accession #	P50454 ; P29043 ; Q5XPB4 ; Q6NSJ6 ; Q8IY96 ; Q9NP88 ; B3KVJ3
Molecular Weight	46,441 Da
NCBI Official Full Name	serpin H1
NCBI Official Synonym Full Names	serpin family H member 1
NCBI Official Symbol	SERPINH1
NCBI Official Synonym Symbols	CBP1; CBP2; OI10; gp46; AsTP3; HSP47; PIG14; PPROM; RA-A47; SERPINH2
NCBI Protein Information	serpin H1
UniProt Protein Name	Serpine H1
UniProt Gene Name	SERPINH1

UniProt Synonym Gene Names	CBP1; CBP2; HSP47; SERPINH2; AsTP3; Colligin
UniProt Entry Name	SERPH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/hsp47-antibody-immunohistochemistry-western-blot-elisa/46426>