10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Hsp47 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10366

Specification

Hsp47 Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	P19324
Reactivity	**Human, Mouse, Rat, Chicken**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46534**

Hsp47 Antibody - Additional Information

Gene ID 12406

Application & Usage	**Western blotting (0.5-4 µg/ml), immunoprecipitation (10-20 µg/ml) and Immunohistochemistry (10-20 µg/ml) in frozen or paraffin embedded tissues. However, the optimal concentrations should be determined individually. The antibody recognizes 47 kDa Hsp47 of human, mouse, rat, and chick origins. Mouse small intestine tissue lysate can be used as a positive control.**

Other Names
SERPINH1 , AsTP3 , CBP1 , CBP2 , HSP47 , PIG14 , RA-A47 , PPROM , colligen , colligin-2 , SERPINH2

Target/Specificity
Hsp47

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.2 mg/ml) Protein A purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Background Descriptions

Precautions
Hsp47 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Hsp47 Antibody - Protein Information

Name Serpinh1

Synonyms Cbp1, Hsp47

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

Cellular Location
Endoplasmic reticulum lumen.

Hsp47 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
- Cell Culture

Hsp47 Antibody - Images

Hsp47 Antibody - Background

Heat shock proteins (HSPs) are ubiquitously expressed in all organisms. HSP47 is a molecule expressed constitutively in cells that synthesizes collagen. HSP47 is a procollagen-specific molecular chaperon that resides in the endoplasmic reticulum of procollagen-producing cells and is essential for secretion of procollagen from cells. Significantly, HSP47 plays a vital role in folding and assembling collagen. HSP47 is also known as colligin 1, serpinh1, collagen-binding protein 1 (CBP1) and gp46. The human HSP 47 gene encodes a 47 kDa protein.