

BioVision

rev. 02/06

Hsp47 Polyclonal Antibody

CATALOG #:	3496-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide surrounding amino acid 407 of human HSP47 (ID# BV-341).
SPECIES REACTIVITY:	human, mouse, rat, chick

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.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

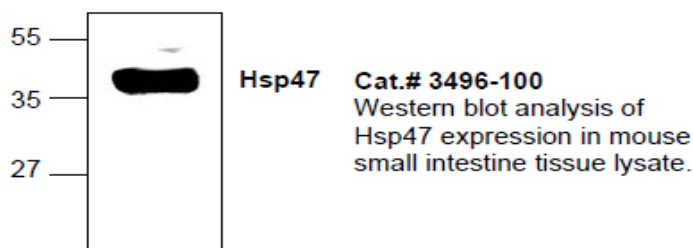
Heat shock proteins (HSPs) are ubiquitously expressed in all organisms. HSP47 is a molecule expressed constitutively in cells that synthesizes collagen. HSP47 is a procollagen-specific molecular chaperon that resides in the endoplasmic reticulum of procollagen-producing cells and is essential for secretion 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.

SPECIFICITY:

The antibody recognizes 47 kDa Hsp47 of human, mouse, rat, and chick origins. Mouse small intestine tissue lysate (Cat.# 2601-100) can be used as a positive control. Blocking peptide (Cat.# 3496BP-50) is also available.

APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml). Based on researcher's feedback, it can also be used in 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.



For research use only

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