

For Research Use Only

# HSP47/SERPINH1 Recombinant antibody

Catalog Number:83689-3-RR



## Basic Information

<b>Catalog Number:</b> 83689-3-RR	<b>GenBank Accession Number:</b> NM_001235.5	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 871	<b>CloneNo.:</b> 240752F6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P50454	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	
	<b>Calculated MW:</b> 46kDa	
	<b>Observed MW:</b> 46 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, K-562 cells, HT-1080 cells, SK-N-SH cells, NIH/3T3 cells

**IHC:** human ovarian cancer,

## Background Information

HSP47 is also named as Serpin H1, colligen, CBP1, CBP2, HSP47, SERPINH2 and belongs to the serpin family. This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The encoded protein is localized to the endoplasmic reticulum. It binds specifically to collagen and can be involved as a chaperone in the biosynthetic pathway of collagen. Autoantibodies to the encoded protein have been found in patients with rheumatoid arthritis. HSP47 has a calculated molecular weight of 46 kDa.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

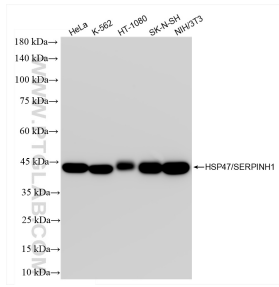
T: 4006900926

E: Proteintech-CN@ptglab.com

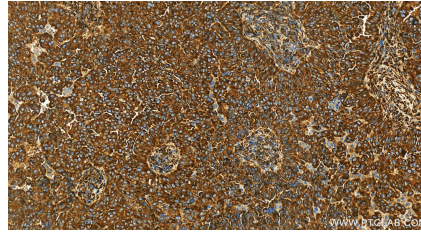
W: ptgcn.com

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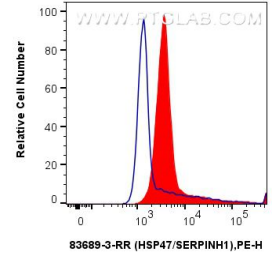
## Selected Validation Data



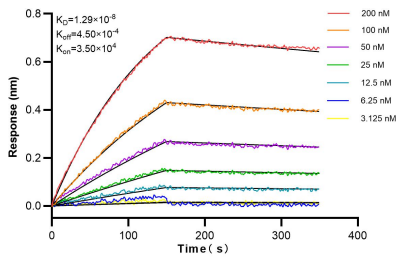
Various lysates were subjected to SDS PAGE followed by western blot with 83689-3-RR (HSP47/SERPINH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83689-3-RR (HSP47/SERPINH1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25  $\mu$ g HSP47/SERPINH1 Recombinant antibody (83689-3-RR, Clone:240752F6) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83689-3-RR against Human HSP47/SERPINH1 were performed. The affinity constant is 12.9 nM.