

For Research Use Only

HSP47/SERPINH1 Recombinant antibody

Catalog Number: 83689-3-RR



Basic Information

Catalog Number: 83689-3-RR	GenBank Accession Number: NM_001235.5	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 871	CloneNo.: 240752F6
Source: Rabbit	UNIPROT ID: P50454	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800
Isotype: IgG	Full Name: serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	
	Calculated MW: 46kDa	
	Observed MW: 46 kDa	

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, K-562 cells, HT-1080 cells, SK-N-SH cells, NIH/3T3 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

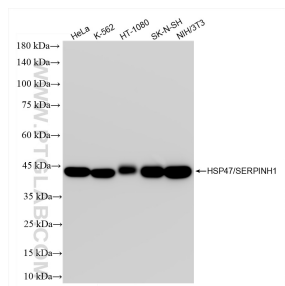
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

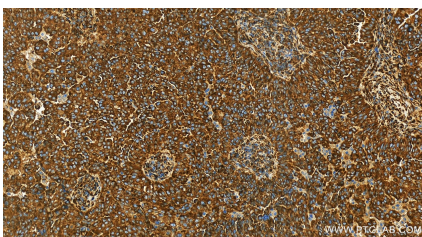
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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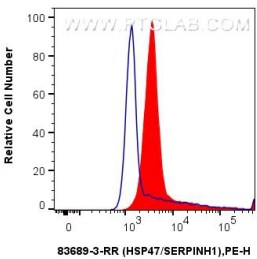
Selected Validation Data



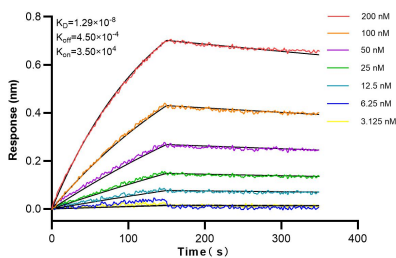
Various lysates were subjected to SDS PAGE followed by western blot with 83689-3-RR (HSP47/SERPINH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug HSP47/SERPINH1 Recombinant antibody (83689-3-RR, Clone:240752F6) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug 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.