HSP47 monoclonal antibody (M16.10A1)

Hsp47, also known as colligin and gp46, is an ER-resident collagen-specific stress glycoprotein involved in the synthesis and assembly of varoius collagens as a molecular chaperone. Hsp47 is a member of the serpin superfamily, but localizes to the ER via binding of its C-terminal RDEL sequence to KDEL receptors in the ER. Hsp47 binds procollagen co-translationally as it enters the ER, and dissociates prior to its secretion.

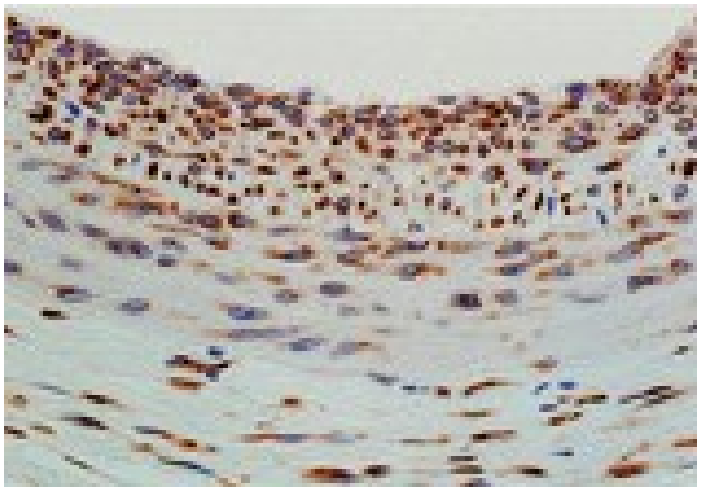
This antibody is covered by our Worry-Free Guarantee.

Citations: 67 View Online »

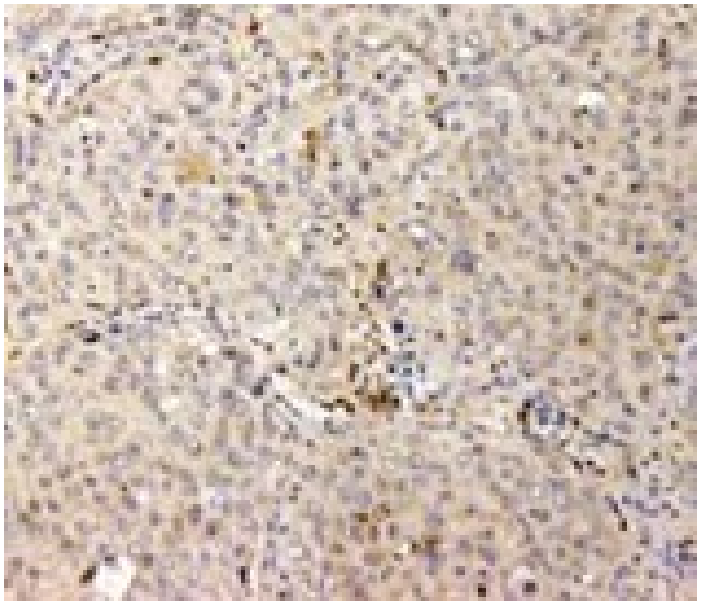
Ordering Information Order Online »

ADI-SPA-470-D	50µg
ADI-SPA-470-F	200µg

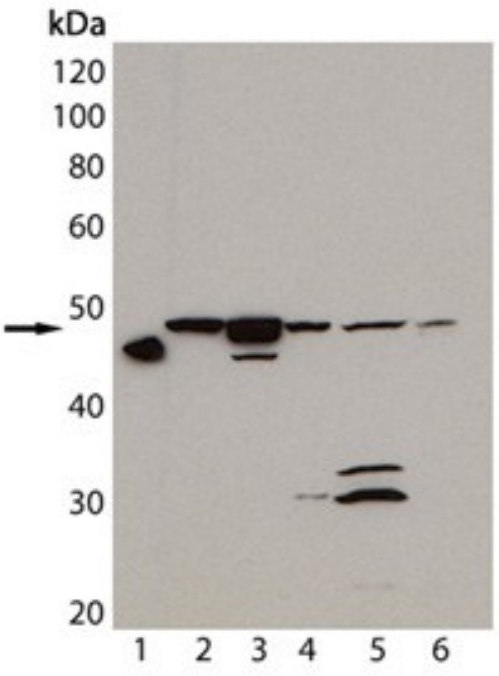
Manuals, SDS & CofA View Online »



Immunohistochemistry analysis of paraffin-embedded tissue section of rat carotid artery 14 days after balloon-injury to the artery, stained using Hsp47 (Colligin) mAb (M16.10A1).



Immunohistochemistry analysis of human breast cancer tissue immunohistochemically stained using Hsp47 mAb (M16.10A1).



Western blot analysis of HSP47, mAb (M16.10A1) (Prod. no. ADI-SPA-470): Lane 1: Rat recombinant HSP47; Lane 2: Rat-2 (heat shocked); Lane 3: L929 (heat shocked); Lane 4: 3T3 (heat shocked); Lane 5: CHO (heat shocked); Lane 6: HeLa (heat shocked).

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	SerpinH1, Colligin, Gp46, Heat shock protein 47, Collagen-binding protein
Application	IHC, WB
Application Notes	Detects a band of ~47kDa by Western blot.
Clone	M16.10A1
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
GenBank ID	X61598
Host	Mouse
Immunogen	Native rat HSP47.
Isotype	IgG2bλ
Purity Detail	Protein G affinity purified.
Recommendation Dilutions/Conditions	Immunohistochemistry (1:50)Western Blot (1:1,000, ECL)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Source	Purified from ascites.
Species Reactivity	Bovine, Chicken, Dog, Guinea pig, Hamster, Human, Monkey, Mouse, Porcine, Rabbit, Rat, Sheep

Technical Info / Product Notes

Cited samples:

For an overview on cited samples please click here.

UniProt ID

P50454

Worry-free Guarantee

This antibody is covered by our Worry-Free Guarantee .

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