

Cat. No:	AB-84783
Conjugate:	Unconjugated
Size:	200 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	E.coli-derived human Hsp47 recombinant protein (Position: D247-L418). Human Hsp47 shares 97% amino acid (aa) sequence identity with both mouse and rat Hsp47.
Reactivity:	Human, Mouse, Rat
Applications:	Western blot: 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section): 2-5ug/ml
Molecular Weight:	46 kDa
Purification:	Immunogen affinity purified
Background:	Heat shock protein 47, also known as SERPINH1 or HSP47, is a serpin which serves as a human chaperone protein for collagen. This protein is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. It has been found that HSP47 monitors the integrity of the triple helix of type I procollagen at the ER/cis-Golgi boundary and, when absent, the rate of transit from the ER to the Golgi is increased and the helical structure is compromised.
Form:	Lyophilized
Buffer:	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Storage:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles

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