

## Human HSP47 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 950811 Catalog Number: FAB91661S

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human HSP47 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with mouse HSP47 is observed.	
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 950811	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human HSP47 Ala19-Asp412 Accession # P50454	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.		
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.		

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

Heat Shock Protein 47 (HSP47), also known as Serpin-H1/CBP1/CBP2, is localized to endoplasmic reticulum (ER), where it is a collagen-specific molecular chaperone. In the ER, HSP47 interacts with and stabilizes correctly-folded procollagen. Nucleotide polymorphisms may be associated with preterm birth and Osteogenesis Imperfecta type X. Serpin-H1 is up-regulated in several cancers including squamous cell carcinoma, breast and prostate carcinomas. Expression in tumors drives malignant growth and invasion by enhancing deposition of extracellular matrix proteins.

## PRODUCT SPECIFIC NOTICES

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