

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse HSP47 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 950806
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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
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

BACKGROUND

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.

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