HSP47 monoclonal antibody

Catalog: MB66959 Host: Mouse Reactivity: Human, Mouse

BackGround:

Serpin peptidase inhibitor, clade H, member 1 (serpin H1), also known as heat shock protein 47 (HSP47), is a collagen specific molecular chaperone localized to the endoplasmic reticulum, essential for collagen biosynthesis. Despite its lack of serine proteinase activity, serpin H1 is a member of the serpin superfamily . Genetic deletion of SERPINH1 or inhibition of its interaction with procollagen has been shown to greatly reduce procollagen secretion from fibroblasts, implicating serpin H1 as a potential target for therapeutic management of fibrosis . Moreover, altered serpin H1 expression has been seen in multiple cancer types, including colon carcinoma, head and neck squamous cell carcinoma, and liver hepatocellular carcinoma. Thus, serpin H1 may function as a potential prognostic biomarker for certain cancers .

Product:

Mouse IgG1. Supplied in crude ascites with 0.01% sodium azide.

Molecular Weight:

~ 46 kDa

Swiss-Prot:

P50454

Purification&Purity:

Applications:

WB (1/1000 - 1/2000), IHC (1/50 - 1/200)

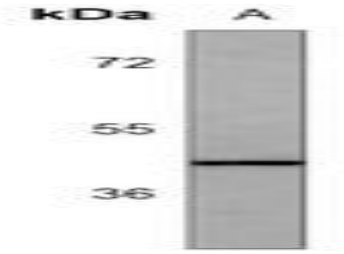
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

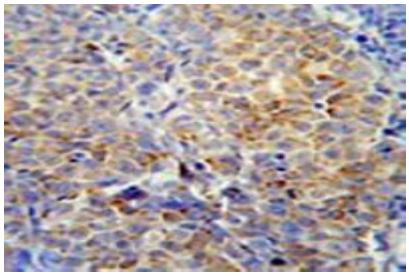
Specificity:

Recognizes endogenous levels of HSP47 protein.

DATA:



Western blot analysis of HSP47 expression in rat heart (A) whole cell lysates.



Immunohistochemical analysis of HSP47 staining in human skin carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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