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Rat Serpinh1 Antibody (Center) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM1834b

Product Information

Application	IHC-P, WB, E
Primary Accession	P29457
Other Accession	P19324, P50454, Q2KJH6
Reactivity	Human, Mouse
Predicted	Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	134CT3.1.1
Calculated MW	46518
Antigen Region	222-251

Additional Information

Gene ID	29345
Other Names	Serpin H1, 47 kDa heat shock protein, Collagen-binding protein, Colligin, GP46, Serpinh1, Cbp1, Hsp47
Target/Specificity	This Rat Serpinh1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 222-251 amino acids from the Central region of rat Serpinh1.
Dilution	IHC-P~~1:100~500 WB~~1:1000~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Rat Serpinh1 Antibody (Center) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

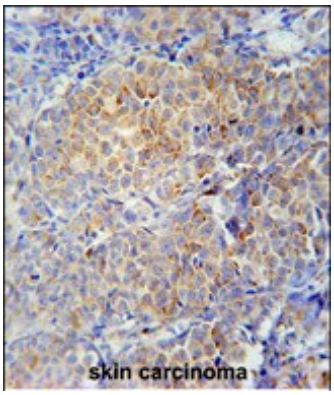
Name	Serpinh1
Synonyms	Cbp1, Hsp47

Function	Binds specifically to collagen. Could be involved as a chaperone in the biosynthetic pathway of collagen.
Cellular Location	Endoplasmic reticulum lumen.

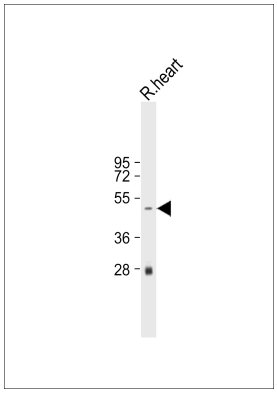
References

Localization of HSP47 mRNA in murine bleomycin-induced pulmonary fibrosis. Kakugawa T, et al. Virchows Arch, 2010 Mar. PMID 20094730. The level of the transcription factor Pax6 is essential for controlling the balance between neural stem cell self-renewal and neurogenesis. Sansom SN, et al. PLoS Genet, 2009 Jun. PMID 19521500. Fog2 is critical for cardiac function and maintenance of coronary vasculature in the adult mouse heart. Zhou B, et al. J Clin Invest, 2009 Jun. PMID 19411759. Adenovirus-mediated RNA interference against collagen-specific molecular chaperone 47-KDa heat shock protein suppresses scar formation on mouse wounds. Wang Z, et al. Cell Biol Int, 2008 May. PMID 18093850. Type I collagen in Hsp47-null cells is aggregated in endoplasmic reticulum and deficient in N-propeptide processing and fibrillogenesis. Ishida Y, et al. Mol Biol Cell, 2006 May. PMID 16525016.

Images



RAT Serpinh1 Antibody (Center)(Ascites) (Cat. #AM1834b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RAT Serpinh1 Antibody (Center)(Ascites) for immunohistochemistry. Clinical relevance has not been evaluated.



Anti-Rat Serpinh1 Antibody (Center) (Ascites) at 1:4000 dilution + rat heart lysate Secondary Goat Anti-mouse IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46518 Da Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.