

Collagen VIII alpha 1 Rabbit pAb

Catalog Number: bs-7529R

Target Protein: Collagen VIII alpha 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: **WB** (1:500-2000), **IHC-P** (1:100-500), **IHC-F** (1:100-500), **IF** (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Pig, Cow, Chicken, Dog)

Predicted MW: 19/79 kDa

Subcellular: Secreted

Locations:

Entrez Gene: 1295

Source: KLH conjugated synthetic peptide derived from human Collagen VIII alpha 1: 641-744/744.

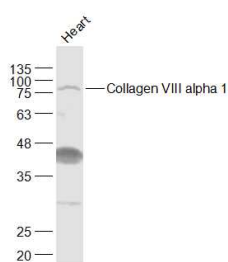
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

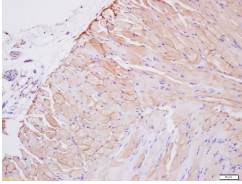
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Macromolecular component of the subendothelium. Major component of the Descemet's membrane (basement membrane) of corneal endothelial cells. Also component of the endothelia of blood vessels. Necessary for migration and proliferation of vascular smooth muscle cells and thus, has a potential role in the maintenance of vessel wall integrity and structure, in particular in arterogenesis. Vastatin, the C-terminal fragment comprising the NC1 domain, inhibits aortic endothelial cell proliferation and causes cell apoptosis.

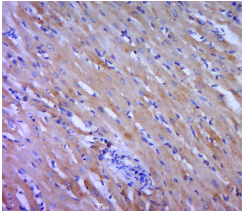
VALIDATION IMAGES



Sample: Heart (Rat) Lysate at 40 ug
Primary: Anti-Collagen VIII alpha 1 (bs-7529R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 19/79 kD
Observed band size: 79 kD



Tissue/cell: smooth muscle of mouse stomach; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Collagen VIII alpha 1 Polyclonal Antibody, Unconjugated(bs-7529R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Collagen VIII alpha 1) Polyclonal Antibody, Unconjugated (bs-7529R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.88] Skrbic et al. Lack of collagen VIII reduces fibrosis and promotes early mortality and cardiac dilatation in pressure overload in mice. (2015) Cardiovasc.Res. 106:32-42 IHC ; Mouse . 25694587