

Catalog No. BN42185R

Rabbit Anti-Collagen III Polyclonal Antibody

DATASHEET

Host:Rabbit**Target Protein:**Collagen III**IR:**Immunogen Range:801-900/1466**Clonality:**Polyclonal**Isotype:**IgG**Entrez Gene:**[1281](#)**Swiss Prot:**[P02461](#)**Source:**KLH conjugated synthetic peptide derived from human Collagen alpha 1(III) chain:801-900/1466**Purification:**affinity purified by Protein A**Storage:**0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Background:The extensive family of COL gene products (collagens) is composed of several chain types, including fibril-forming interstitial collagens (types I, II, III and V) and basement membrane collagens (type IV), each type containing multiple isoforms. Collagens are fibrous, extracellular matrix proteins with high tensile strength and are the major components of connective tissue, such as tendons and cartilage. All collagens contain a triple helix domain and frequently show lateral self-association in order to form complex connective tissues. Several collagens also play a role in cell adhesion, important for maintaining normal tissue architecture and function.

This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

Concentration:1mg/ml**Applications:**WB(1:500-2000)

ELISA(1:5000-10000)

IHC-P(1:100-500)

IHC-F(1:100-500)

IF(1:100-500)

Cross Reactive Species:Human

Mouse

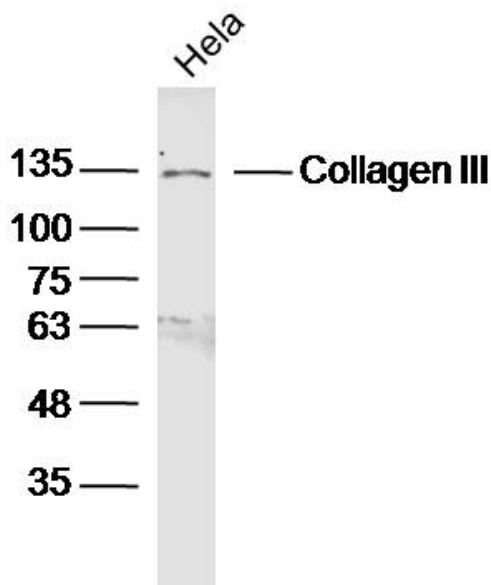
Rat

Cow

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For research use only. Not intended for diagnostic or therapeutic use.

VALIDATION IMAGES



Sample:

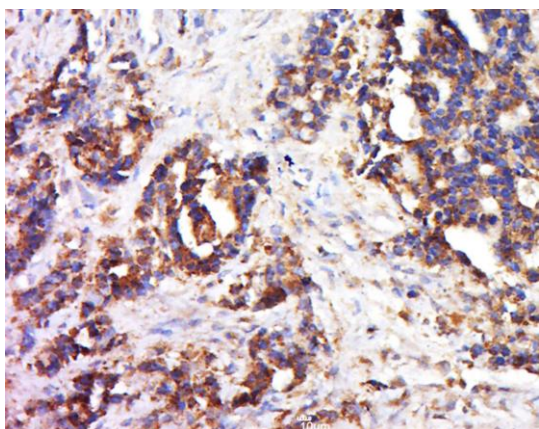
Hela Cell (Human) Lysate at 40 ug

Primary: Anti- Collagen III at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 117 kD

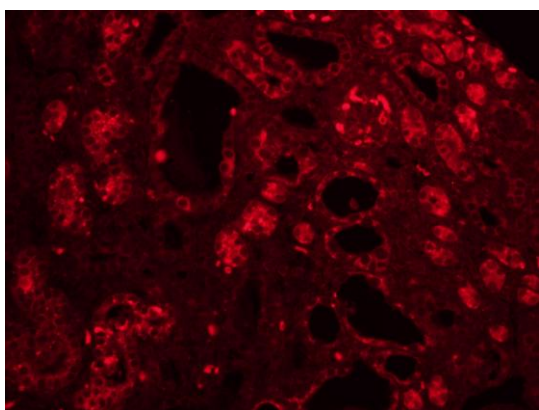
Observed band size: 130 kD



Tissue/cell: human colon cancer; 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) at 37°C for 20 min;

Incubation: Anti-Collagen III Polyclonal Antibody, Unconjugated 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAB(C-0010) staining



Tissue/cell: rat kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-Collagen III Polyclonal Antibody, Unconjugated 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.