

Rabbit Anti-COL5A1 antibody

SL0552R

Product Name COL5A1

Chinese Name V型胶原抗体

Alias CO5A1_HUMAN; Collagen alpha-1(V) chain; collagen type V alpha 1 chain; EDSC; FMDMF; EDSCL1;

Research Area Tumour immunology

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Rabbit,Sheep)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 153kDa

Cellular localization Extracellular matrix Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human COL5A1: 1401-1500/1838

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Rabbit,Sheep)1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Rabbit,Sheep)3% Proclin300 and 50% Glycerol.

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

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. The encoded procollagen protein occurs commonly as the heterotrimer pro-alpha1(V)-pro-alpha1(V)-pro-alpha2(V). Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

Function:

Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin.

Subunit:

Trimers of two alpha 1(V) and one alpha 2(V) chains in most tissues and trimers of one alpha 1(V), one alpha 2(V), and one alpha 3(V) chains in placenta. Interacts with CSPG4.

**Product
Detail**

Subcellular Location:

Secreted, extracellular space, extracellular matrix.

Post-translational modifications:

Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

Sulfated on 40% of tyrosines.

DISEASE:

Ehlers-Danlos syndrome 1 (EDS1) [MIM:130000]: A connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS1 is the severe form of classic Ehlers-Danlos syndrome.

Note=The disease is caused by mutations affecting the gene represented in this entry.

Ehlers-Danlos syndrome 2 (EDS2) [MIM:130010]: Mild form of classic Ehlers-Danlos syndrome. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the fibrillar collagen family.

Contains 1 fibrillar collagen NC1 domain.

Contains 1 laminin G-like domain.

SWISS:
P20908

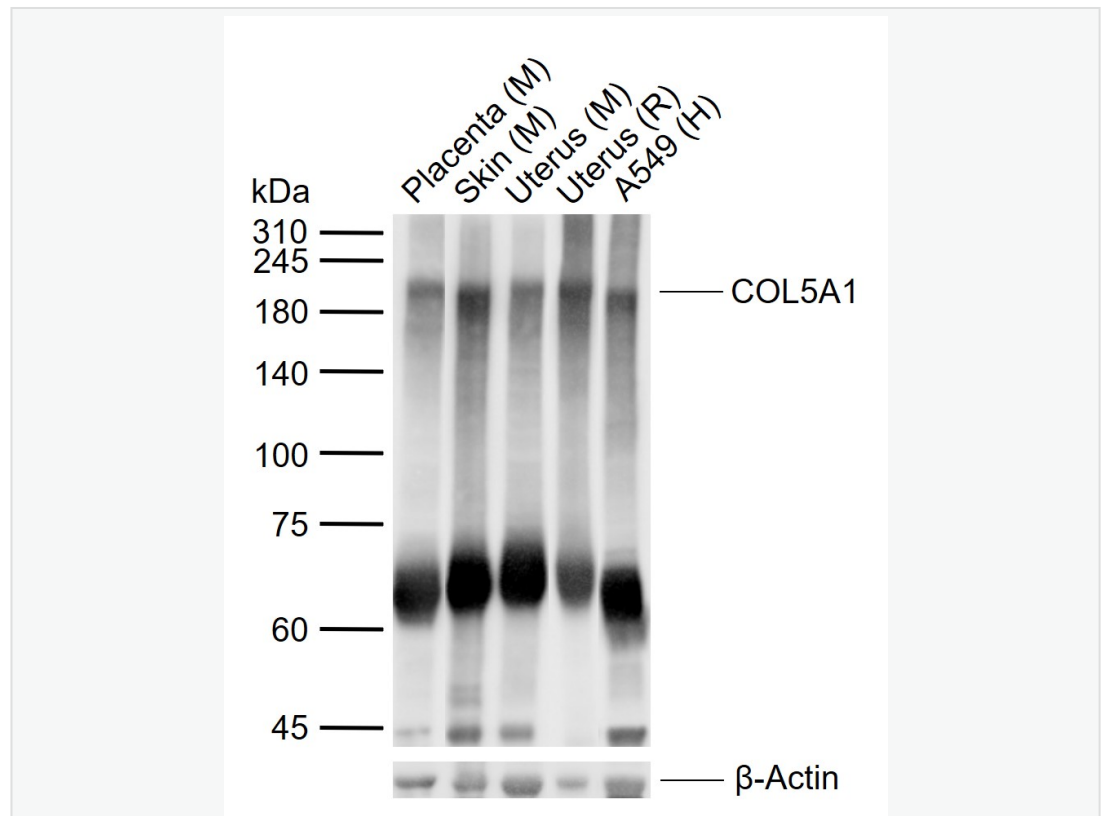
Gene ID:
1289

Database links:

[Entrez Gene: 1289](#) Human

[SwissProt: P20908](#) Human

**Product
Picture**



Sample:

Lane 1: Mouse Placenta tissue lysates

Lane 2: Mouse Skin tissue lysates

Lane 3: Mouse Uterus tissue lysates

Lane 4: Rat Uterus tissue lysates

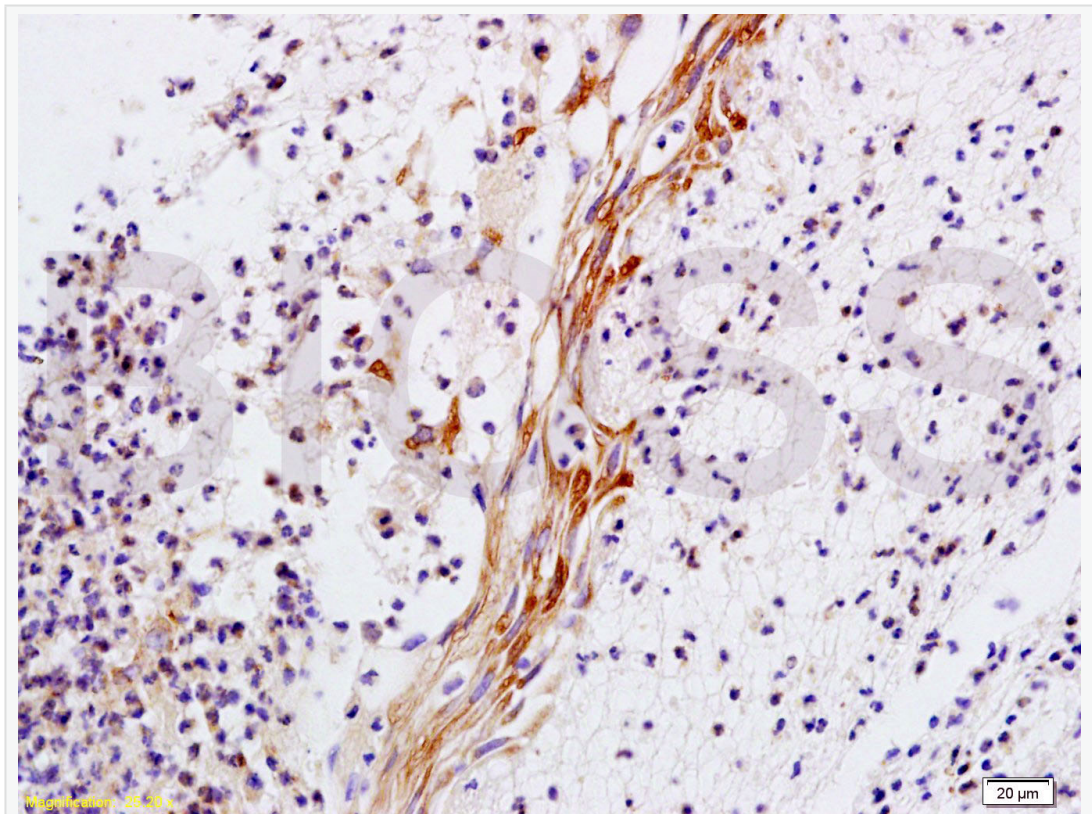
Lane 5: Human A549 cell lysates

Primary: Anti-COL5A1 (SL0552R) at 1/1000 dilution

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

Predicted band size: 153 kDa

Observed band size: 200 kDa



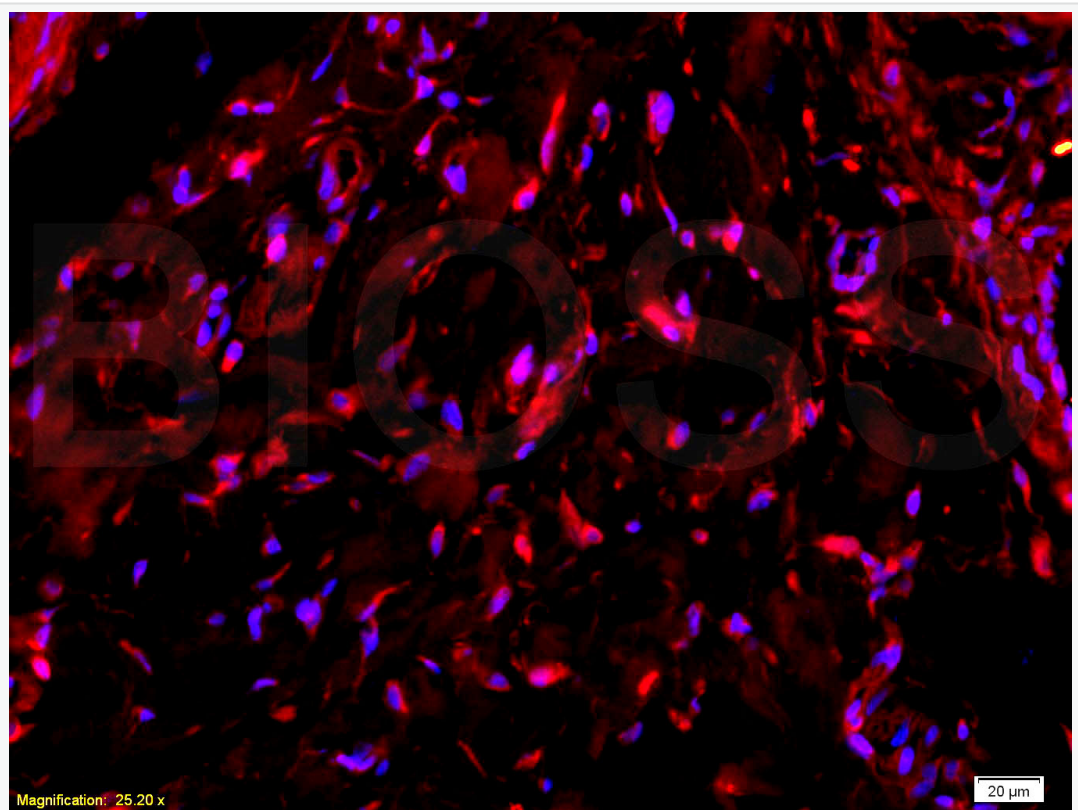
Tissue/cell: rat skin tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

(Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Rabbit,Sheep)1M, 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 V Polyclonal Antibody, Unconjugated(SL0552R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

(Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Rabbit,Sheep)1M, pH 6.0),
Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C
for 20 min;
Incubation: Anti-GM-CSF Polyclonal Antibody, Unconjugated(SL0552R) 1:200,
overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, PE
conjugated(SL0295G-PE)used at 1:200 dilution for 40 minutes at 37°C.
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei