

**COL6A5 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54355****Specification**

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**COL6A5 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">A8TX70</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	288 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COL6A5/Collagen VI alpha 5
Epitope Specificity	121-220/2615
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix. Note=Deposed in the extracellular matrix of skeletal muscle.
SIMILARITY	Belongs to the type VI collagen family. Contains 10 VWFA domains.
SUBUNIT	Trimers composed of three different chains: alpha-1(VI), alpha-2(VI), and alpha-3(VI) or alpha-5(VI) or alpha-6(VI)
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
DISEASE	Note=Patients affected by atopic dermatitis display an abnormal distribution of COL29A1 mRNA and protein in skin suggesting that COL29A1 may be involved in the pathogenesis of the disease.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

The protein encoded by this gene is a collagen that contains N- and C-terminal von Willebrand factor A-like domains. The encoded protein may interact with the alpha 1 and alpha 2 chains of collagen VI to form the complete collagen VI trimer. Sequence polymorphisms in this gene have been linked to atopic dermatitis (eczema). Two transcript variants, one protein-coding and the other probably not protein-coding, have been found for this gene.

**COL6A5 Polyclonal Antibody - Additional Information**

**Gene ID 256076****Other Names**

Collagen alpha-5(VI) chain, Collagen alpha-1(XXIX) chain, von Willebrand factor A domain-containing protein 4, COL6A5, COL29A1, VWA4

**Target/Specificity**

Expressed in skin, followed by lung, small intestine, colon and testis. In skin, it is expressed in the epidermis with strongest staining in suprabasal viable layers. In ATOD patients, it is absent in the most differentiated upper spinous and granular layers (at protein level).

**Dilution**

WB~~1:1000  
IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200  
ICC~~N/A  
E~~N/A

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**COL6A5 Polyclonal Antibody - Protein Information**

**Name** COL6A5

**Synonyms** COL29A1, VWA4

**Function**

Collagen VI acts as a cell-binding protein.

**Cellular Location**

Secreted, extracellular space, extracellular matrix. Note=Deposed in the extracellular matrix of skeletal muscle.

**Tissue Location**

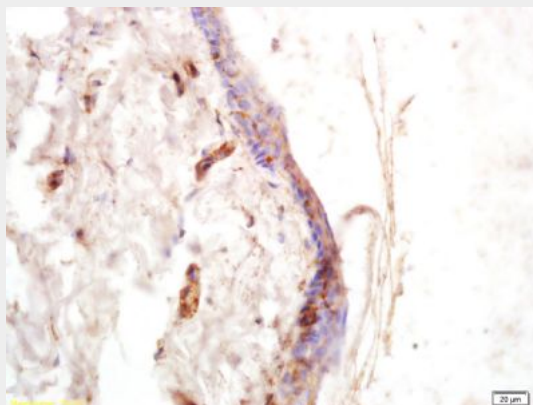
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**COL6A5 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**COL6A5 Polyclonal Antibody - Images**



Tissue/cell: rat skin tissue; 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-COL6A5/Collagen VI alpha 5 Polyclonal Antibody, Unconjugated(bs-11047R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining