



# Anti-Collagen Type V polyclonal antibody (DPAB1583)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Cross-reactivity (% @ 1:10 RIA dilution) Rat Collagen Type V 100% Rat Collagen Types I, III <0.1% Rat Elastin <0.1%
<b>Immunogen</b>	Collagen type V extracted and purified from rat skin
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Rat
<b>Purification</b>	Ion exchange chromatography (DEAE-Trisacryl)
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	For immunostaining of extra or intracellular components in light microscopy. For the quantitation of Collagen Type V in biological fluids or in culture supernatants. IFA (with fluorescein anti-rabbit IgG conjugate): use diluted at >1:40 on frozen rat tissues. IHC(p) (immunoperoxidase technique): use diluted at >1:500 on fixed paraffin-embedded rat tissues. ELISA: use diluted at >1:200. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Purified, Lyophilized. Reconstitute with 0.5ml deionized water.
<b>Concentration</b>	Not determined
<b>Size</b>	0.5 ml
<b>Buffer</b>	Not applicable

<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	Lyophilized: Store (up to 24 months) at 2-8°C. Long term, store at -20°C. Reconstituted: Aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

## BACKGROUND

<b>Introduction</b>	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. Collagen V is composed of several subunits as follows: 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. Type V Collagen 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. Mutations in this gene are associated with Ehlers Danlos syndrome, types I and II.
<b>Keywords</b>	AB collagen; Alpha 1 type V collagen; Alpha 2 type V collagen; Col5A1; Col5A2; COL5A2 protein; Col5A3; Collagen alpha 1(V) chain; Collagen alpha 2 (V) chain precursor; Collagen alpha 2(V) chain; Collagen alpha 3(V) chain; Collagen fetal membrane A polypeptide; Collagen type V alpha 1; Collagen type V alpha 2; Collagen type V alpha 3; Collagen V alpha 2 polypeptide; CollagenV; MGC105115; Col5a1; OTTHUMP00000064637; Pro alpha 1 type V collagen; Pro alpha 3(V) collagen; Procollagen alpha 2(V); Type V procollagen alpha 2 chain; A1413331; collagen alpha-1(V) chain; OTTMUSP00000012312; alpha1(V) collagen; pro-alpha1(V) collagen; procollagen type V alpha 1; procollagen, type V, alpha 1; Col5a2; Col5a3; D230017N05; 1110014L14Rik; collagen alpha-2(V) chain; OTTMUSP00000023677; procollagen, type V, alpha 2; collagen alpha-3(V) chain; Pro-alpha3(V); procollagen, type V, alpha 3; Collagen Type V; CollagenTypeIII; OTTMUSP00000025338; CELLAGEN(TM) BEADS; CELLAGEN(TM) SOLUTION AC-3; CELLAGEN(TM) SOLUTION AC-5; CELLAGEN(TM) SOLUTION EMEM; CollagenTypeVII; CollagenTypeVI; Recombinant Human Like Collagen; chicken Collagen II; C00211; fish collagen peptide