

**BP2208****Polyclonal Antibody to Collagen type V - Purified****Alternate names:**

COL5A1

**Quantity:**

0.5 ml

**Background:**

Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure.

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.

**Uniprot ID:**[Q9J103](#)**NCBI:**[NP\\_604447](#)**GeneID:**[85490](#)**Host:**

Rabbit

**Immunogen:**

Collagen type V extracted and purified from rat skin.

**Format:****State:** Lyophilized purified Ig fraction.**Purification:** Ion exchange chromatography (DEAE-Trisacryl).**Reconstitution:** Reconstitute with 0.5 ml deionized water.**Applications:**

Suitable for :

ELISA (dilution &gt;1:100-1:200).

IFA with fluorescein anti-rabbit IgG conjugate (dilution at &gt;1:40 on frozen rat tissue sections).

Immunostaining of extra or intracellular components in light microscopy.

Quantitation of Collagen Type V in biological fluids or in culture supernatants.

(SP)RIA.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

Cross-Reactivity (% at 1:10 RIA dilution)

Rat Collagen Type V 100%

Rat Collagen Types I, III &lt; 0.1%

Rat Elastin &lt; 0.1%

**Storage:**

Lyophilized store the antibody at 2-8°C. Following reconstitution store at -20 °C. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf life: one year from despatch.