

Product datasheet for **BP2208**

Col5a1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF
Recommended Dilution:	Suitable for : ELISA (dilution >1:100-1:200). IFA with fluorescein anti-rabbit IgG conjugate (dilution at >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.
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Collagen type V extracted and purified from rat skin.
Specificity:	Cross-Reactivity (% at 1:10 RIA dilution) Rat Collagen Type V 100% Rat Collagen Types I, III < 0.1% Rat Elastin < 0.1%
Formulation:	State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Reconstitute with 0.5 ml deionized water.
Purification:	Ion exchange chromatography (DEAE-Trisacryl).
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen, type V, alpha 1
Database Link:	Entrez Gene 85490 Rat Q9J103



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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.

Synonyms:

COL5A1