

BP2156**Polyclonal Antibody to Collagen type I - Azide Free****Alternate names:**

Alpha-1 type I collagen, Alpha-2 type I collagen, COL1A1, COL1A2

Quantity:

0.5 ml

Background:

Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for Platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor.

Uniprot ID:[P02452](#)**NCBI:**[NP_000079](#)**GeneID:**[1277](#)**Host:**

Rabbit

Immunogen:

Collagen Type I extracted and purified from salmon fish skin.

Format:**State:** Lyophilized purified Ig fraction**Purification:** Ion Exchange Chromatography**Preservatives:** None**Reconstitution:** Restore with 0.5 ml deionized water.**Applications:****(SP)RIA.****ELISA:** 1/10-1/200.**Immunofluorescence:** In Indirect IFA with fluorescein anti-Rabbit IgG conjugate, use diluted at 1/40 on Frozen salmon tissues (skin, liver).

Immunostaining of extra or intracellular components in light microscopy and the quantitation of Salmon Type I collagen.

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

Specificity:**Cross Reactivity:** (OD at a 1/100 ELISA dilution).Salmon Fish Collagen Type I: ≥ 1.0 Sole and Tuna fish Collagen Type I: ≤ 0.4 Goldfish Collagen Type I: $\leq 0.2^*$ Mammalian, avian Collagen Type I: $\leq 0.2^*$

(*OD < 0.2 means negative reactivity).

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Product Citations:**Purchased from Acris:**

1. Matsuyama N, Yasui K, Amakishi E, Hayashi T, Kuroishi A, Ishii H, et al. The IgE-dependent pathway in allergic transfusion reactions: involvement of donor blood allergens other than plasma proteins. *Int J Hematol.* 2015 Apr 4. PubMed PMID: 25840771.