

Rabbit Anti-Rat Collagen I Affinity Purified pAb

Catalog No. PS065 **Quantity:** 1 ml

Description: Antibodies to rat collagen type I are raised in rabbits which are numerous immunized with extensively purified native collagen type I extracted from rat tail tendon into dilute acidic buffer after mild pepsin digestion. Pooled antisera are passed over DEAE-cellulose to produce IgG-enriched fraction. Next, the antisera fraction is absorbed with immobilized rat collagen types III to remove cross-reactive antibodies to antigenic determinants common for this type of collagen. The affinity purified antibody PS065 is obtained by binding to immobilized native rat collagen type I (the antigen used for immunization), followed by elution with acidic buffer, neutralization, dialysis, dispensing and lyophilization.

Specificity was ascertained by competition ELISA. Complete inhibition was found if the antibody was pre-incubated with rat collagen type I. Inhibition by rat collagen type III is observed only at 10-20 times higher concentration. No inhibition is found with fibrinectin, fibrogen and laminin. Characteristic immunostaining pictures of frozen sections of rat kidney and skin are produced to certify absence of cross-reactivity with basement membranes.

Specificity: Rat collagen type I

Host: Rabbit

Immunogen: Native rat collagen type I

Formulation: 1 ml lyophilized IgG antiserum (0.1 mg/ml).

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute with 1 ml distilled water and add preservative if preferred.

Applications: For use in immunohistochemistry on frozen sections and for immunostaining of cultured rat cells. Suitable for dot-blotting and ELISA on native rat collagen type I.

Application Notes: Antibodies can be diluted at least 1:20 for immunohistochemical procedures if Peroxidase labeled secondary antibodies is applied. If a FITC labeled secondary antibody is used, the antibody can be diluted 1:10. The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Store lyophilized product at +2-4°C. Stable for 1 year from receipt.

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