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Goat anti-Human Collagen I, Affinity purified Polyclonal Antibody

Catalog No.: PS060

Quantity: 1 ml

Specificity

Antibodies to human collagen type I are raised in goats which are numerously immunized with extensively purified native collagen type I extracted from human skin into dilute acidic buffer after mild pepsin digestion. Pooled antisera are passed over DEAE-cellulose to produce IgG-enriched fraction, which is further subjected to absorption with immobilized total human serum proteins in order to remove non-specific antibodies. Next, the antisera fraction is absorbed with immunobilized collagen types II, III, IV and V to remove cross-reactive antibodies to antigenic determinants common for various collagen types. The affinity purified antibody PS060 is obtained by binding to immobilized native human 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 is found if the antibody was pre-incubated with collagen type I. Inhibition by other types of collagens is observed only at 20-50 times higher concentration. No inhibition was found with fibronectin, fibrinogen and laminin. Characteristic immunostaining pictures of frozen sections of human kidney, liver, skin and heart are produced to certify batch quality.

Use

Recommended for use in immunohistochemistry on frozen sections and immunostaining of cultured human cells. Suitable for dot-blotting and ELISA on native human collagen type I. Use on paraffin sections is not tested.

Instructions for use

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.

Presentation

1 ml lyophilized IgG antiserum (0.1 mg/ml).
Reconstitute with 1 ml distilled water and add preservative if preferred.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

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