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# Rabbit anti-Human Collagen II, Affinity purified Polyclonal Antibody

**Catalog No.:** PS048

**Quantity:** 1 ml

**Specificity**
Antibodies to human collagen type II are raised in rabbits which are numerously immunized with extensively purified native collagen type II 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 I, III, IV and V to remove cross-reactive antibodies to antigenic determinants common for various collagen types. The affinity purified antibody PS048 is obtained by binding to immobilized native human collagen type II (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 II. Inhibition by other types of collagens is observed only at 20-50 times higher concentration. 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 cells and sections. Suitable for dot-blotting and ELISA on native human collagen type II. 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.

**Method of purification:**
Ammonium sulfate precipitation + cross-absorption on immobilized other collagen types + affinity chromatography.

**Literature**

- Amenta, et al., 1986, Collagen rel. res. *6*, 125-152.
- Rukosuev, et al., 1990, Histochem. *89*, 11-16.
- Shekhonin, et al., 1985, Collagen rel. res. *5*, 355-368.


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