

## Rat Collagen Type IV, Col IV ELISA Kit | Col IV elisa kit

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CATALOG #  
**AAA80705**

REACTIVITY  
**Rat**

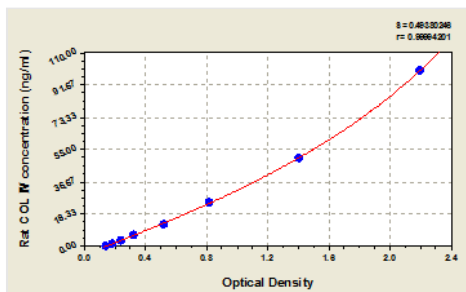
### PRODUCT SYNONYMS

Collagen Type IV; Col IV; Rat Collagen Type IV; Col IV ELISA Kit; Col IV ELISA KIT; Col IV elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                               |
| Samples                 | Serum, plasma, tissue homogenates                                                                                                 |
| Detection Range         | 1.56 ng/ml-100 ng/ml                                                                                                              |
| Sensitivity             | 0.39 ng/ml                                                                                                                        |
| Detection Wavelength    | 450 nm                                                                                                                            |
| Sample Volume           | 50-100ul                                                                                                                          |
| Preparation and Storage | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| <p><b>Related Product Information for Col IV elisa kit</b></p> | <p><b>Introduction:</b> Collagen is the main protein of connective tissue in animals and the most abundant protein in mammals, making up about 25% to 35% of the whole-body protein content. Collagen is one of the long, fibrous structural proteins whose functions are quite different from those of globular proteins such as enzymes. Tough bundles of collagen called collagen fibers are a major component of the extracellular matrix that supports most tissues and gives cells structure from the outside, but collagen is also found inside certain cells. Collagen has great tensile strength, and is the main component of fascia, cartilage, ligaments, tendons, bone and skin. Along with soft keratin, it is responsible for skin strength and elasticity, and its degradation leads to wrinkles that accompany aging. It strengthens blood vessels and plays a role in tissue development. It is present in the cornea and lens of the eye in crystalline form. It is also used in cosmetic surgery and burns surgery. Hydrolyzed collagen can play an important role in weight management, as a protein, it can be advantageously used for its satiating power. Type-IV collagen is a type of collagen found primarily in the basal lamina. The C-terminus domain is not removed in post-translational processing, and the fibers link head-to-head, rather than in parallel. Also, type-IV lacks the regular glycine in every third residue necessary for the tight, collagen helix. This makes the overall arrangement more sloppy with kinks. These two features cause the collagen to form in a sheet, the form of the basal lamina. The alpha 3 protein constituent of type-IV collagen is thought to be the antigen implicated in Goodpasture's syndrome, wherein the immune system attacks the basement membranes of the glomeruli and the alveoli</p> <p><b>Principle of the Assay:</b> The microtiter plate provided in this kit has been pre-coated with an antibody specific to Col IV. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for Col IV and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Col IV, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Col IV in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
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**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/collagen-type-iv-col-iv/80705>