

BP8019**Polyclonal Antibody to Collagen type V - Purified****Alternate names:**

COL5A1

Quantity:

0.5 ml

Concentration:

App. 1 mg/ml

Background:

Collagens consist in a family of highly specialized glycoproteins of which at least 16 genetically distinct types are known to date. The basal unit of a collagen molecule consists in a triple-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxyproline. Regularly also lysines and hydroxylysines occur, which are responsible for cross-linkage and glycosylation of the protein chains. Different composition of alpha-chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Collagen type V is found as short fibrils in skin, bone and placenta. Often it is found in conjunction with other collagen types, especially type I and III.

Uniprot ID:[P20908](#)**NCBI:**[NP_000084](#)**GeneID:**[1289](#)**Host:**

Rabbit

Immunogen:

Purified collagen type IV from chicken skin

Format:**State:** Lyophilized Ig fraction**Purification:** Ion exchange chromatography**Reconstitution:** Reconstitute with 0.5 ml distilled water, for further dilution use appropriate antibody diluent**Applications:**

IF: 1:40.

IHC: 1:200 - 1:600 for paraffin sections, 60 min at RT or 2-8°C over night.

ELISA 1:200 gives OD > 500.

RIA.

Positive control: chicken skin or liver.

Pretreatment: After de-waxing the tissue slices they are treated with 0.2% hyaluronidase (app. 300 U/mg) in TBS 15 min at 37°C. There after non-specific binding is blocked by blocking serum or 3% BSA in TBS. For peroxidase systems blocking with 1% peroxide solution in TBS for 30 min at RT is recommended.

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

Specificity:

Chicken collagen type V 100 %, chicken collagen type I, II, III and X < 0.1 %; chicken fibronectin < 0.1 %; human collagen type V < 0.1 %.

Storage:

Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.