

Product datasheet for **BP8018**

Collagen IV (COL4A1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	ELISA: > 1/200 gives OD > 500. RIA. Immunofluorescence (1/80). Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/500. <u>Incubation time:</u> 60 min. at RT or 2-8°C overnight. <u>Positive Control:</u> Porcine renals. <u>Pretreatment:</u> 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.
Reactivity:	Porcine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Purified collagen type IV from porcine renals.
Specificity:	This antibody is specific for Collagen type IV (100%). Porcine Collagen type I, II, III, Elastin, Fibronectin and Laminin < 0.1% (in RIA at 1/1000 dilution).
Formulation:	PBS without BSA and preservatives. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 0.5 ml distilled water. For further dilution use appropriate antibody diluent.
Concentration:	lot specific
Purification:	Affinity Chromatography.
Conjugation:	Unconjugated



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Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen type IV alpha 1 chain
Database Link:	Entrez Gene 1282 Human P02462
Background:	<p>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.</p> <p>Type IV Collagen (170-180 kDa), is a non-fibrillary network of different alpha-chains. It is typically found in basal membranes of different organs (e.g. skin, lens, lung, renals).</p>
Synonyms:	COL4A1
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer