

Product datasheet for **BP8016**

Col4a1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	RIA. ELISA: $\geq 1/200$ (OD = 0.5). Immunofluorescence: 1/80. Immunohistochemistry on Paraffin Sections: 1/200-1/600. <i>Incubation Time:</i> 60 min at RT or 2-8°C over night. <i>Positive Control:</i> Rat skin or Liver. <i>Pretreatment:</i> 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:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Purified Collagen type IV from ruminant tumour tissue
Specificity:	Rat Collagen type IV: 100% Rat Collagen type I, II, III and V: < 0.1% Human Collagen type IV: < 0.1% Rat and Murine Fibronectin: < 0.1% Murine Laminin: < 0.1% (RIA at 1/5000 dilution).
Formulation:	PBS without BSA or preservatives. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water. For further dilutions use appropriate antibody diluent.
Concentration:	lot specific
Purification:	Affinity Chromatography.
Conjugation:	Unconjugated



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Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen, type IV, alpha 1
Database Link:	Entrez Gene 290905 Rat Entrez Gene 12826 Mouse P02463
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