

## Product datasheet for **BP975**

### Col4a1 Rabbit Polyclonal Antibody

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Applications:         | ELISA, IF, IHC  |
| Recommended Dilution: | <b>ELISA:</b> 1/100-1/400.<br><b>Immunofluorescence:</b> 1/40-1/60.<br><b>Immunohistochemistry on Paraffin Embedded Sections:</b> 1/250-1/1000.<br>Antigen retrieval is not necessary but may improve results, the recommended fixatives are AFA, 5-10% buffered formalin or Bouin's.                                   |
| Reactivity:           | Mouse, Orang-Utan   |
| Host:                 | Rabbit  |
| Clonality:            | Polyclonal  |
| Immunogen:            | Collagen IV purified from Mouse EHS tumour  |
| Specificity:          | Antibody BP975 is specific for Mouse collagen type IV.<br>The following cross reactivities have been observed:<br>Mouse Type IV: 100%<br>Mouse Type III: < 0.1%<br>Mouse Type II: < 0.1%<br>Mouse Type I: < 0.1%<br>Human Type V: < 0.1%<br>Human Type IV: < 0.1%<br>Mouse Fibronectin: < 0.1%<br>Mouse Laminin: < 0.1% |
| Formulation:          | PBS<br>State: Purified<br>State: Liquid purified IgG fraction<br>Preservative: 0.09% Sodium Azide   |
| Purification:         | Antigen Affinity Chromatography   |
| Conjugation:          | Unconjugated  |
| Storage:              | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: one year from despatch.   |



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**Gene Name:** collagen, type IV, alpha 1

**Database Link:** [Entrez Gene 12826 Mouse P02463](#)

**Background:** Collagen IV is a major constituent of the basement membranes along with laminins, proteoglycans and enactins. It is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. It can form insoluble fibers with high tensile strength. Collagen IV is useful in detecting the loss of parts of basement membranes in carcinomas.

**Synonyms:** COL4A1