

## Product datasheet for **DM229-05**

### Collagen IV (COL4A1) Mouse Monoclonal Antibody [Clone ID: COL-94]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	COL-94
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on formalin-fixed paraffin embedded sections:</b> diluted of 1:25-1:50 in an ABC method (30 minutes at room temperature) Recommended Positive Control: Skin
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human collagen type IV.
Specificity:	This antibody recognizes collagen type IV epitope located on the alpha1 and/or alpha 2 chains of human collagen type IV. This antibody shows no cross reactivity with collagen types I, II, III, V, VI and VII as well as does not react with human vitronectin, fibronectin or chondroitin sulfate A, B and C. <i>Cellular Localization:</i> Basement membrane
Formulation:	State: Ascites State: Ascites containing Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted 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:	Homo sapiens collagen type IV alpha 1 (COL4A1), transcript variant 1
Database Link:	<a href="#">Entrez Gene 1282 Human P02462</a>



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<b>Background:</b>	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.
<b>Synonyms:</b>	COL4A1
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer