

Product datasheet for **AM33006PU-N**

Collagen IV (COL4A1) Mouse Monoclonal Antibody [Clone ID: 1043]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1043
Applications:	FC, IF, IHC, WB
Recommended Dilution:	Western blot: 1/100-1/1000. Immunocytochemistry on fixed cells (methanol fixation). Flow cytometry. Immunohistochemistry on Frozen Sections using a PBS buffer containing 0.1 mM CaCl ₂ and 0.1 mM MgCl ₂ . Immunohistochemistry on Paraffin Sections: Pretreatment with 1 mg/ml pepsin in 0.01N HCl for 30 minutes at room temperature is recommended. Recommended Dilutions: 1/50–1/100 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human type IV Collagen, isolated from Human placenta. Antibody derived by fusion of Sp 2/0 mouse myeloma cells with spleen cells from a BALB/c mouse.
Specificity:	This antibody clone <i>1043</i> recognizes type IV collagen in the extracellular – basement membranes of normal and pathological tissues.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.



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Stability: Shelf life: One year from despatch.

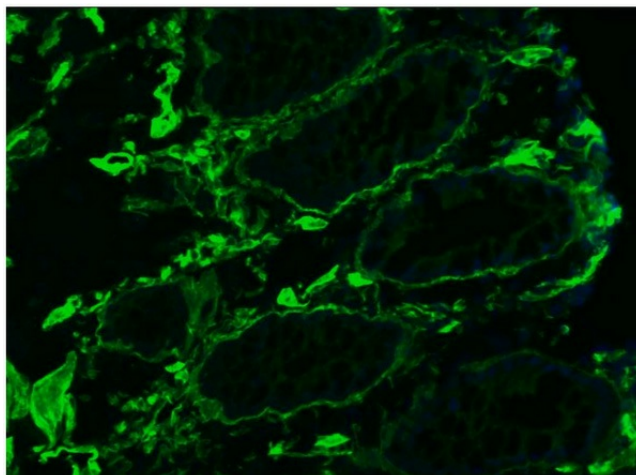
Gene Name: collagen type IV alpha 1 chain

Database Link: [Entrez Gene 1282 Human P02462](#)

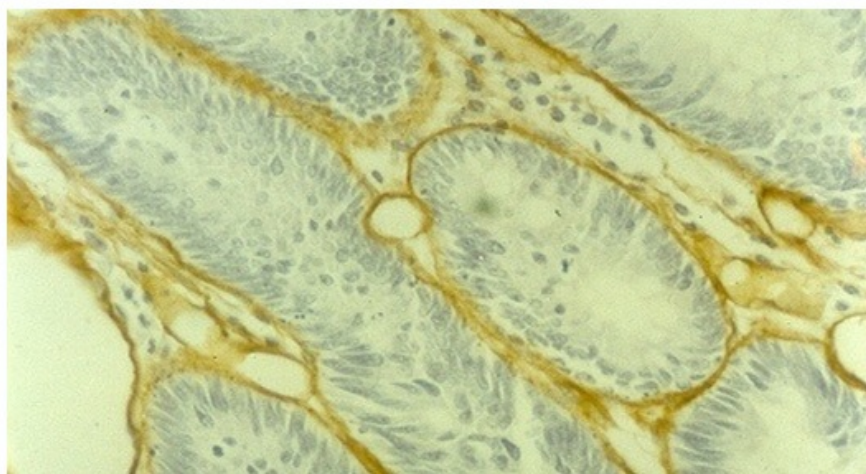
Background: Type IV collagen is an integral part of most, if not all basement membranes. The extent of expression of the basement membrane component type IV collagen may be correlated with the degree of differentiation of basement membrane producing neoplasms. Neoplastic cells of invasive carcinomas often lack a continuous basement membrane. In diagnostic histopathology antibodies to type IV collagen may help to distinguish between non-invasive (benign or in situ) and invasive lesions. Furthermore the antiserum can be of help in the differential diagnosis of bullous lesions in dermatopathology.

Synonyms: COL4A1

Product images:



Immunohistochemistry on frozen section of human colon



Immunohistochemistry on paraffin section of human skin