



BMA BIOMEDICALS

Monoclonal Antibody to Human Collagen Type IV Marker For The Major Constituent Of Basement Membranes

Monoclonal antibody C IV 22 stains basement membranes in a variety of tissues and organs, including kidney, skin, striated and smooth muscle, spleen, lymph node, lung, placenta, and tendon. It recognizes native, but not denatured collagen type IV but nevertheless reacts clearly with formalin-fixed paraffin-embedded sections. C IV 22 is a useful marker for monitoring destruction of basal membranes as observed in malignant neoplastic diseases.

This antibody was produced serum-free, without fetal calf serum.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1201 (Lot 08PO1402)
Clone:	CIV22
Host species, isotype:	Mouse IgG1, kappa light chain
Quantity:	100µg
Format:	Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer, and 0.05% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC), has been reported to work in ELISA. Approximate working dilution for IHC: Frozen sections: 0.125µg/ml (1:1600) Paraffin sections: 0.5µg/ml (1:400); pretreatment with Proteinase K for antigen retrieval is recommended Optimal dilutions should be determined by the end user Suggested positive control: Human tonsil Please see www.bma.ch for protocols and general information
Immunogen:	Purified pepsin fragments of human type IV collagen from human kidneys.

Protein database: human-P53420

Antigen, epitope: The antibody recognizes a conformational epitope on a helical part of native collagen IV and loses its reactivity on denaturing the collagen IV protein. The antigen is stable to formalin fixation, however.

Antigen distribution: **Tissue sections:** Basically, all basement membranes except corneal epithelium.

Specificity: **Human:** Collagen IV.

Other species: Bovine and swine collagen IV.

Selected references

B.F. Odermatt et al.: Monoclonal antibodies to human type IV collagen: useful reagents to demonstrate the heterodimeric nature of the molecule. Proc Natl Acad Sci, USA **81**: 7343-7347 (1984).

T. Matsubara & M. Ziff: Basement membrane thickening of postcapillary venules and capillaries in rheumatoid synovium. Arthritis and Rheumatism **30**: 18-30 (1987).

For in vitro research only. This product contains Kathon™ CG as a preservative.