



MONOCLONAL ANTIBODIES PRODUCED
BY THE RAT LYMPH NODE METHOD

For research use only

Anti Collagen IV $\alpha 5(\text{IV})$ Chain, Human (Mono)

Cat#: SGE-C452 Quantity: 500 μl

This product can be used for immunostaining of cryostat sections and for western blotting

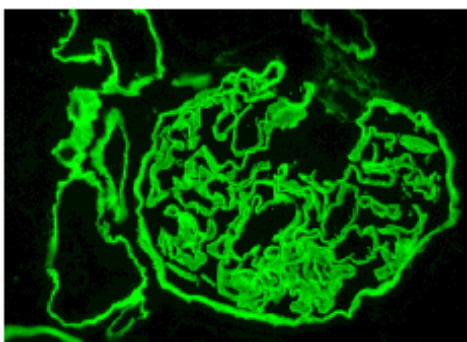
How to stain human cryostat sections with C-452-EX (H52)

Materials

1. Acid solution : KCl-HCl buffer, pH 1.5, Ion strength=0.1 (Mix equal volumes of 0.1 M KCl and 0.1 M HCl.)
2. Blocking solution: 10% goat serum (normal goat serum diluted with PBS)
3. First antibody: H52 monoclonal Ab is usually diluted to 1/10 - 1/100 with PBS containing 1 mg/ml of bovine serum albumin before use.
4. Secondary Ab: Affinity purified Ab to rat IgG (Cappel #55760) is usually diluted to 1/50- 1/100 with PBS containing 5% human normal serum before use.

Procedure

1. Cryostat sections: 4 μm
2. Treatment with acetone for 10 min
3. Acid-solution treatment with 0.1 M KCl- HCl (pH1.5) for 10 min
4. Washing with PBS
5. Blocking with 10% normal goat serum for 10 min
6. Washing
7. First Ab for 60 min
8. Washing
9. Secondary Ab for 30 min
10. Washing
11. Mount with Perma Fluor (Tanner #11611)



Human cryostat section stained with monoclonal antibody H52.

Glomerular basement membrane (BM), part of tubular BM, and Bowman's capsular BM are stained.



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- Product name: Anti Collagen IV $\alpha 5(\text{IV})$ Chain, Human (Mono)
- Code: SGE-C452
- Quantity: 500 μl
- Appearance: Solution. Diluted ascitic solution obtained from nude mice; diluted with culture medium containing 10 % fetal bovine serum and 0.1% NaN_3 .
- Clone names: H52 (rat IgG2b/kappa)
- Specificity of antibodies: H52 is specific to NC1 domain of $\alpha 5(\text{IV})$ (Reference 1).
Reactive with NC1 domain of $\alpha 5(\text{IV})$ of rat, rabbit, guinea pig, dog, and bovine.
- Preparation of antibodies : Monoclonal antibodies were prepared by the rat lymph node method developed by Shigei Medical Research Institute with a synthetic peptide of type IV collagen as an immunogen.
- use : Staining of human cryostat sections by indirect immunofluorescence (Acid treatment is necessary.); Western blotting (dilution x100)
- Storage : Store at below -30°C . Stable at these conditions for several years
- Reference : 1) Sado et al. (1995) Establishment by the rat lymph node method of epitope-defined monoclonal antibodies recognizing the six different chains of human type IV collagen. Histochem. Cell Biol. 104: 267-275.
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Distributor



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