

Chitosan-Based Membranes for Skin Wound Repair in a Dorsal Fold Chamber Rat Model

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S1. CK5 Protocol Summary

Procedure: U ultraView DAB (v1.02.0018)

BenchMark ULTRA IHC/ISH Staining Module

- 1 Baking [Selected]
 - 2 Warmup Slide to [72 Deg C], and Incubate for [4 Minutes] (Baking)
 - 3 Deparaffinization [Selected]
 - 4 Warmup Slide to [74 Deg C] from Medium Temperatures (Deparaffinization)
 - 5 Cell Conditioning [Selected]
 - 6 ULTRA Conditioner #1 [Selected]
 - 7 Warmup Slide to [97 Deg C], and Incubate for 8 Minutes (Cell Conditioner #1)
 - 8 20 minutes of ULTRA CC1 [Selected]
 - 9 36 minutes of ULTRA CC1 [Selected]
 - 10 52 minutes of ULTRA CC1 [Selected]
 - 11 Enzyme [Selected]
 - 12 Apply One Drop of [PROTEASE 3] (Enzyme), Apply Coverslip, and Incubate for [8 Minutes]
 - 13 Ab Incubation Temperatures [Selected]
 - 14 Warmup Slide to [39 Deg C], and Incubate for 4 Minutes (Antibody)
 - 15 Titration [Selected]
 - 16 Hand Apply (Primary Antibody), and Incubate for [0 Hr 32 Min]
 - 17 Counterstain [Selected]
 - 18 Apply One Drop of [HEMATOXYLIN] (Counterstain), Apply Coverslip, and Incubate for [4 Minutes]
 - 19 Post Counterstain [Selected]
 - 20 Apply One Drop of [BLUING REAGENT] (Post Counterstain), Apply Coverslip, and Incubate for [4 Minutes]
- * one drop is one reagent dispense

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S2. Vimentin Protocol Summary

Procedure: U ultraView DAB (v1.02.0018)

BenchMark ULTRA IHC/ISH Staining Module

- 1 Baking [Selected]
 - 2 Warmup Slide to [75 Deg C], and Incubate for [4 Minutes] (Baking)
 - 3 Deparaffinization [Selected]
 - 4 Warmup Slide to [72 Deg C] from Medium Temperatures (Deparaffinization)
 - 5 Extended Depar [Selected]
 - 6 Cell Conditioning [Selected]
 - 7 ULTRA Conditioner #1 [Selected]
 - 8 Warmup Slide to [95 Deg C], and Incubate for 8 Minutes (Cell Conditioner #1)
 - 9 20 minutes of ULTRA CC1 [Selected]
 - 10 36 minutes of ULTRA CC1 [Selected]
 - 11 Ab Incubation Temperatures [Selected]
 - 12 Warmup Slide to [37 Deg C], and Incubate for 4 Minutes (Antibody)
 - 13 Titration [Selected]
 - 14 Hand Apply (Primary Antibody), and Incubate for [0 Hr 16 Min]
 - 15 Counterstain [Selected]
 - 16 Apply One Drop of [HEMATOXYLIN] (Counterstain), Apply Coverslip, and Incubate for [4 Minutes]
 - 17 Post Counterstain [Selected]
 - 18 Apply One Drop of [BLUING REAGENT] (Post Counterstain), Apply Coverslip, and Incubate for [4 Minutes]
- * one drop is one reagent dispense
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S3. CD31 Protocol Summary

Procedure: U ultraView DAB (v1.02.0018)

BenchMark ULTRA IHC/ISH Staining Module

- 1 Baking [Selected]
- 2 Warmup Slide to [75 Deg C], and Incubate for [4 Minutes] (Baking)
- 3 Deparaffinization [Selected]
- 4 Warmup Slide to [74 Deg C] from Medium Temperatures (Deparaffinization)
- 5 Extended Depar [Selected]
- 6 Cell Conditioning [Selected]
- 7 ULTRA Conditioner #1 [Selected]
- 8 Warmup Slide to [95 Deg C], and Incubate for 8 Minutes (Cell Conditioner #1)
- 9 20 minutes of ULTRA CC1 [Selected]
- 10 36 minutes of ULTRA CC1 [Selected]
- 11 52 minutes of ULTRA CC1 [Selected]
- 12 64 minutes of ULTRA CC1 [Selected]
- 13 Ab Incubation Temperatures [Selected]
- 14 Warmup Slide to [37 Deg C], and Incubate for 4 Minutes (Antibody)
- 15 Antibody [Selected]
- 16 Apply One Drop of [CD31 (JC70)] (Antibody), Apply Coverslip, and Incubate for [0 Hr 32 Min]
- 17 Counterstain [Selected]

18 Apply One Drop of [HEMATOXYLIN] (Counterstain), Apply Coverslip, and Incubate for [4 Minutes]

19 Post Counterstain [Selected]

20 Apply One Drop of [BLUING REAGENT] (Post Counterstain), Apply Coverslip, and Incubate for [4 Minutes]

* one* one drop is one reagent dispense

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