



Sep 30, 2020

n situ hybridization

Forked from FISH and antibody staining

M M1

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1 Works for me

This protocol is published without a DOI.

Zhang Xue



PROTOCOL CITATION

№ 2020. in situ hybridization. **protocols.io**

https://protocols.io/view/in-situ-hybridization-bmvzk676

ORK FROM

Forked from FISH and antibody staining, N N

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CREATED

Sep 30, 2020

LAST MODIFIED

Sep 30, 2020

PROTOCOL INTEGER ID

42649

BEFORE STARTING

Day1

- MM75%MetOH+25%PBT 1ml shake for 5min (00:05:00
- 2 50%MetOH+50%PBT 5min **© 00:05:00**
- 3 25%MetOH+75%PBT 5min **© 00:05:00**
- 4 100%PBT 5min 1/4 © 00:05:00



```
5
     100%PBT 5min 2/4 © 00:05:00
     100%PBT 5min 3/4 © 00:05:00
     100%PBT 5min 4/4 © 00:05:00
     MMProteinase K: PBT = 1:1000 (MM10µg/mlM24hMMMM24hM5minM36hM10minM48hM15minM60hM20minM72hMMM30min
     ©00:00:00 ©00:10:00 ©00:15:00 ©00:20:00 ©00:30:00
     MMM4%PFA 30min
          © 00:30:00
 10
     1×PBT 5min 1/4 © 00:05:00
    1×PBT 5min 2/4 © 00:05:00
 12
    1×PBT 5min 3/4 © 00:05:00
 13
    1×PBT 5min 4/4 © 00:05:00
 14
     MM6μl probe+200μl Hybe buffer M68.5°C overnight δ 68.5°C
Day2
     ММММММММММ68.5°СММММММ29МММММММММММ
```

17 Hybe buffer 10min (00:10:00 75% Hybe buffer+25% 2×SSCT 10min © 00:10:00 50%Hybe buffer+50% 2×SSCT 10min © **00:10:00** 25%Hybe buffer+75% 2×SSCT 10min © 00:10:00 2×SSCT 10min © 00:10:00 22 0.2×SSCT 15min 1/4 © **00:15:00** 0.2×SSCT 15min 2/4 © 00:15:00 0.2×SSCT 15min 3/4 © 00:15:00 0.2×SSCT 15min 4/4 © 00:15:00 26 75% 0.2× SSCT+25% MABt 5min (00:05:00 & Room temperature 1 mL 50% 0.2× SSCT+50%MABt 5min © 00:05:00

28

25%0.2× SSCT+75%MABt 5min © 00:05:00

29 MABt 5min © 00:05:00 30 δ Room temperature ■500 μl 31 Anti-Dig-AP 1:2000 1 200 μ 1 4 °C 200 μ 1 MMFISHMMMMAnti-Dig-AP Day3 32 1×MABt 15min 1/8 © 00:15:00 1×MABt 15min 2/8 © 00:15:00 35 1×MABt 15min 3/8 © 00:15:00 36 1×MABt 15min 4/8 © 00:15:00 37 1×MABt 15min 5/8 © 00:15:00 38 1×MABt 15min 6/8 © 00:15:00 39 1×MABt 15min 7/8 © 00:15:00

40 1×MABt 15min 8/8000NTMT000000003.5ml0 © 00:15:00

20ml	NTMT
2ml	1M pH9.5 Tris-HCl
2ml	1M NaCl
0.5ml	10% Tween
15.5ml	ddH2O

- 41 Equilibrate with NTMT\(\text{NTMT}\)5min 1/3 \(\cup 00:05:00\)
- 42 MM24MMNTMT 5min 2/3 © 00:05:00



- 43 NTMT 5min 3/3 © 00:05:00
- 44 MMBCIP in NTMTM1:50M500μIMM37°CMMMM15minMMMMBFMMMMM **300 μI** δ 37 °C **00:30:00**

