

PolyBranch HCR™ Rapid RNA FISH Kit(Animal)

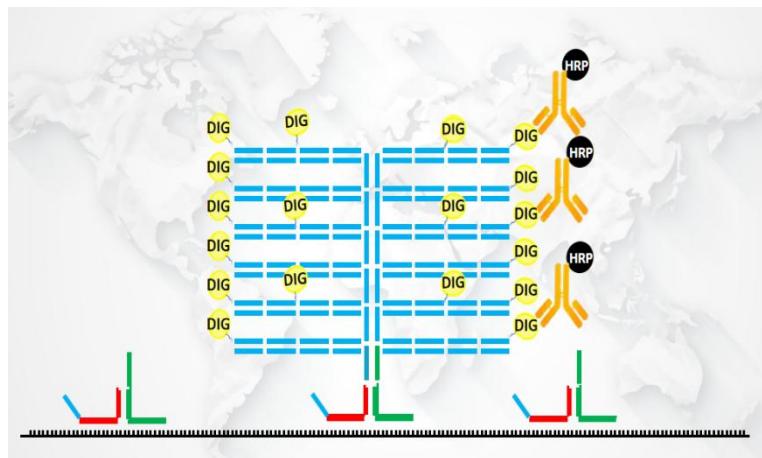
Catalog Number:HKR11D

【Product Information】

Product Name	Catalog No	20T	Storage	Shelf Life
Wash Buffer (powder, dissolve in 10L ddH ₂ O)	HKR11-1	10L	Short-term:4℃ Long-term:-20℃	12 months
Proteinase K (100x)	HKR11-2	20uL		
HRP-Mouse Anti-Digoxin (100x)	HKR11-3	20uL		
TSA Chromogenic Solution 570nm (Optional)	HKR11-4	2mL		
Blocking Buffer	HKR11-5	2mL		
Probe:	HKR11-6	2mL		

【Product Description】

RNA rapid hybridization kit, suitable for in situ hybridization of RNA larger than 300bp, with simple and convenient operation and short experimental time. The reagent kit contains multiple pairs of trigger probes. When two probes bind to adjacent positions of the target sequence, one probe triggers the other probe to expose the amplified sequence. The amplified sequence triggers a branched HCR to form a large molecular nucleic acid aggregate, and each nucleic acid strand is labeled with digoxin. The antibody recognizes digoxin for color development.



【Probe Information】

【Tissue Fixation】

Tissue Type	Animal	Plant	Frozen Samples	Cell Climb Slides	Cells
Treatment	Fix at RT for 12h, paraffin embed	Vacuum fix for 1h, RT fix for 12h, paraffin embed.	Dehydrate in 15% sucrose at 4°C for 8h, then in 30% sucrose at 4°C for 8h, OCT embed.	Fix at 4°C for 2h.	scrape off cells, fix in 4% PFA at 4°C for 2h, wash with PBS, agarose embed.
Type	mRNA	lncRNA	circRNA	miRNA	rRNA
Treatment	Fix at RT for 12h	Fix at RT for 12h (<300bp: 24h)	Fix at RT for 12h	Fix at RT for 12h	Fix at RT for 12h (<300bp: 24h)

【Storage and Shipping】

Ship on wet ice; store at -20°C for long-term or at 4°C for short-term use. Shelf life: 6

months.

【Protocol】

1. Deparaffinization and Rehydration

Immerse slides sequentially in: Xylene I (15 min) → Xylene II (15 min) → Xylene III (15 min) → 100% ethanol (10 min) → 90% ethanol (10 min) → 80% ethanol (10 min) → 70% ethanol (10 min) → Rinse with distilled water.

2. Enzyme Repair

After slides are completely dry, draw a hydrophobic circle around the tissue using a histology pen (recommended: HKR14P In Situ Hybridization Pen). Place slides horizontally in a hybridization oven or humidified chamber. Add 100 µL of Proteinase K repair solution (1X) onto the tissue and incubate at 37 °C for 30 min (15 min for cell samples). Rinse with distilled water to stop the reaction.

3. Blocking

Remove excess liquid from slides. Add 100 µL of Blocking Buffer per slide and incubate at 37 °C for 30 min. Wash once for 5 min. **Wash steps: Place slide racks in a wash tank, add wash buffer (ensure samples are submerged), and shake at 60 rpm for 5 min.**

4. Probe Hybridization

Remove excess liquid from slides. Add 100 µL of probe per slide and incubate at 37 °C for 2 – 3 h (maintain humidity to prevent drying). Wash 5 times, 5 min each. **Wash steps: As described above.**

5. HRP-Mouse Anti-Digoxin

Remove excess liquid from slides. Add 100 µL of HRP-Mouse Anti-Digoxin (1X) per slide and incubate at 37 °C in a humidified chamber for 40 min. Wash 5 times, 5 min each. **Wash steps: As described above.**

6. Chromogenic Reaction

Remove excess liquid from slides. Add 100 µL of TSA Chromogenic Solution per slide and incubate at RT for 10 min. Rinse with distilled water to stop the reaction.

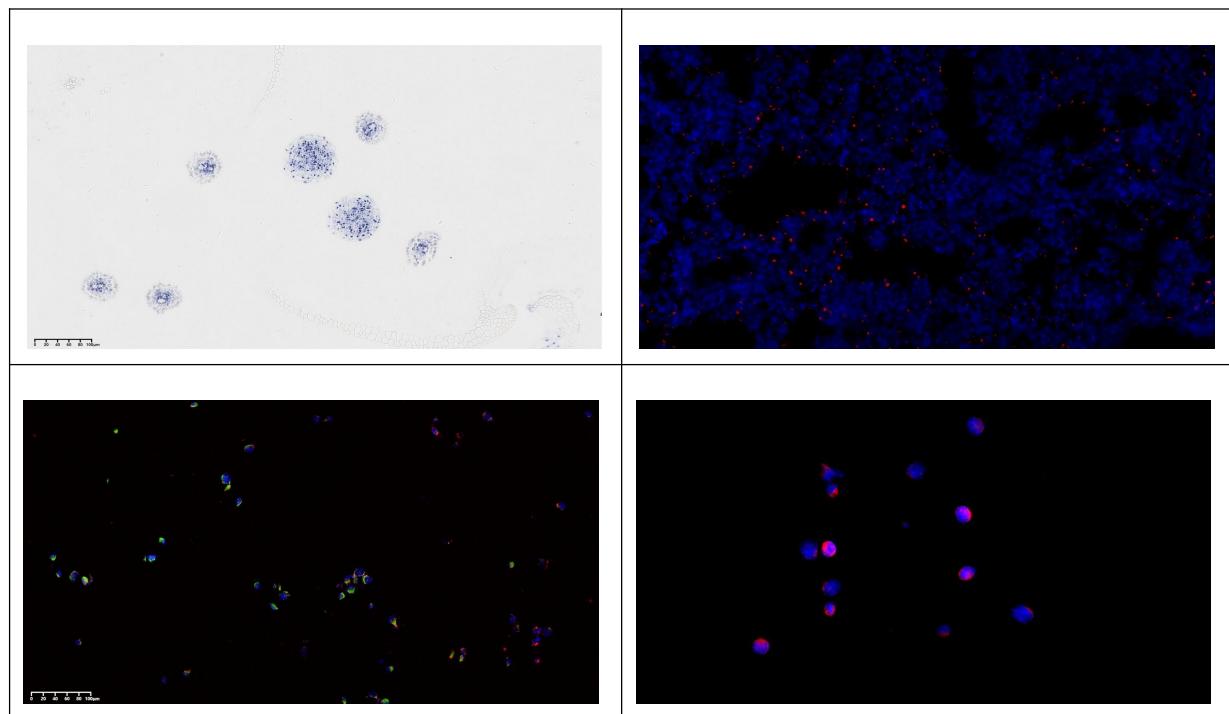
7. DAPI Staining

Add 50 µL of DAPI staining solution per slide, incubate in the dark for 5 min, rinse with distilled water, and mount with anti-fade mounting medium.

【Precautions】

1. For research use only.
2. Wear lab coats and disposable gloves for safety.

【Example Images】



PolyBranch HCR™ Rapid RNA FISH Kit (动物)

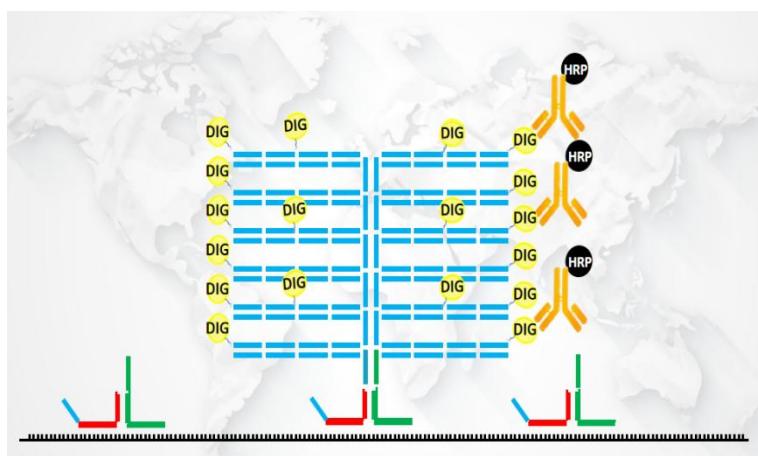
货号：HKR11D

【产品信息】

产品名称	产品货号	20T	保存	有效期
洗液（粉末溶解于 10L ddH2O）	HKR11-1	10L	短期 4°C 长期 -20°C	12 个月
蛋白酶 K (100x)	HKR11-2	20uL		
HRP-鼠抗地高辛 (100x)	HKR11-3	20uL		
TSA 显色液 570nm (200x) (可选)	HKR11-4	2mL		
封闭液	HKR11-5	2mL		
探针 NR_	HKR11-6	2mL		

【产品简介】

RNA 快速杂交试剂盒，适用于大于 300bp 的 rna 原位杂交，操作简单便捷，实验时间短。试剂盒中包含多对触发式探针，当两个探针结合在目标序列相邻的位置上时，一条探针触发另一条探针暴露出放大序列，放大序列触发树叉状 HCR 形成了一个大分子核酸聚集体，每条核酸链上标记有地高辛，抗体识别地高辛进行显色。



【探针信息】

【组织固定】

组织类型	动物组织	植物组织	冰冻样本	细胞爬片	细胞
处理方式	室温固定 12h, 石蜡包埋。	抽真空固定 1h, 室温固定 12h, 石蜡包埋。	15%蔗糖溶液中, 4℃脱水 8 小时, 换 30%蔗糖溶液 4℃脱水 8 小时, OCT 包埋。	4° 固定 2h 左右。	贴壁细胞用 PBS 清洗, 加入多聚甲醛, 将细胞刮下来, 收集到离心管中, 4℃固定 2h, PBS 清洗, 琼脂糖包埋。
种类	mRNA	lncRNA	circRNA	miRNA	rRNA
处理方式	室温固定 12h	室温固定 12h (小于 300bp 固定 24h)	室温固定 12h	室温固定 12h	室温固定 12h (小于 300bp 固定 24h)

【储存与运输】

冰袋 (wet ice) 运输; -20℃长期保存, 短期于 4℃保存, 有效期 6 个月。

【使用方法】

1. 脱蜡至水

依次将切片放入二甲苯 I 15 min-二甲苯 II 15 min-二甲苯 III 15 min-无水乙醇 10 min-90%酒精 10 min-80%酒精 10 min -70%酒精 10 min -纯水冲洗。

2. 酶修复

等待切片完全干燥后，用组画笔（推荐 HKR14P 原位杂交专用组画笔）画出大小合适的疏水圈，在原位杂交仪中或湿盒中水平放置切片，将 100ul 蛋白酶 K 修复液(1X)滴于组织上，37°C孵育 30min（细胞样本孵育 15min），纯水冲洗终止反应。

3. 封闭

甩干切片上的液体，每张切片滴加 100ul 封闭液，37°C孵育 30min，洗涤 1 次，每次 5min。洗涤步骤：将装入玻片的玻片架放入洗液缸，倒入洗液（样本区域须被浸没），置于摇床上 5min，转速为 60。

4. 探针杂交

甩干切片上的液体，每张切片滴加 100ul 的探针，37°C孵育 2h-3h，注意保持湿度以防干片。洗涤 5 次，每次 5min。洗涤步骤：将装入玻片的玻片架放入洗液缸，倒入洗液（样本区域须被浸没），置于摇床上 5min，转速为 60。

5. HRP-鼠抗地高辛

甩干切片上的液体，每张切片滴加 100ul 的 HRP-鼠抗地高辛（1x），37°C湿盒孵育 40min；洗涤 5 次，每次 5min。洗涤步骤：将装入玻片的玻片架放入洗液缸，倒入洗液（样本区域须被浸没），置于摇床上 5min，转速为 60。

6. 显色

甩干切片上的液体，每张切片滴加 100ul 的 TSA 显色液，室温孵育 10min。纯水冲洗，终止反应。

7. DAPI 染核

每张切片滴加 50ul DAPI 染液，避光孵育 5min，纯水冲洗后滴加抗荧光淬灭封片剂封片。

【注意事项】

1. 本产品仅作科研用途。

2. 为了您的安全和健康，请穿实验服并戴一次性手套操作

【示例图片】

