HaoKebio™ Rapid RNA FISH Kit(Plant)

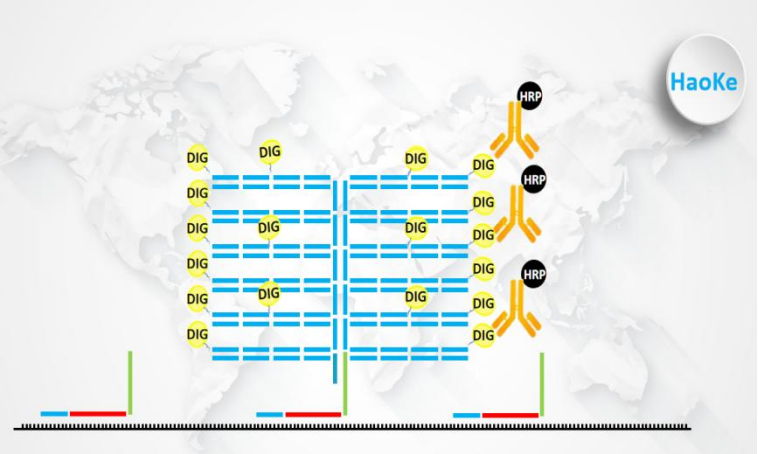
Catalog Number:HKR11Z

【Product Information】

Product Name	Catalog No	30T	Storage	Shelf Life
Wash Buffer (powder, dissolve in 10L ddH2O)	HKR11-1	10L	Short-term:4℃ Long-term:-20℃	12 months
AP-Mouse Anti-Digoxin (100x)	HKR11-2	30uL		
NBT Chromogen Solution A (20x)	HKR11-3	150uL		
NBT Chromogen Solution B (20x)	HKR11-4	150uL		
Blocking Buffer	HKR11-5	3mL		
Probe:	HKR11-6	3mL		

【Product Description】

A rapid RNA hybridization kit designed for in situ hybridization of RNA longer than 300 bp. The kit features a simple and fast protocol, significantly reducing experimental time. It includes multiple trigger probes that, upon binding to the target sequence, expose an amplification sequence. This triggers the formation of a dendritic HCR (Hybridization Chain Reaction) assembly, generating a large nucleic acid polymer. Each nucleic acid strand is labeled with digoxigenin (DIG), which is detected by antibodies for chromogenic visualization.



【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℃ for 8h,then in 30% sucrose at 4℃ for 8h, OCT embed.	Fix at 4℃ for 2h.	scrape off cells,fix in 4% PFA at 4℃ 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℃ for long-term or at 4℃ 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. Antigen Retrieval

Place slides in a retrieval rack, submerge in 1x EDTA (pH 9.0) retrieval buffer, cover, and seal with tape.Microwave: Medium heat (8 min) → Rest (8 min) → Medium-low heat (8 min).Cool naturally, then treat with 3% H_2O_2 for 15 min.

3. Blocking

Dry slides, draw a hydrophobic barrier (recommended: HKR14P in situ hybridization pen).Add 100 μL blocking buffer per slide, incubate at 37°C for 30 min in a hybridization oven/humid chamber.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℃ for 2–3 h (maintain humidity to prevent drying). Wash 5 times, 5 min each.**Wash steps: As described above.**

5. AP-Mouse Anti-Digoxin

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

6. Chromogenic Reaction

Prepare the chromogenic solution by adding 50 μL of NBT Chromogen Solution A and

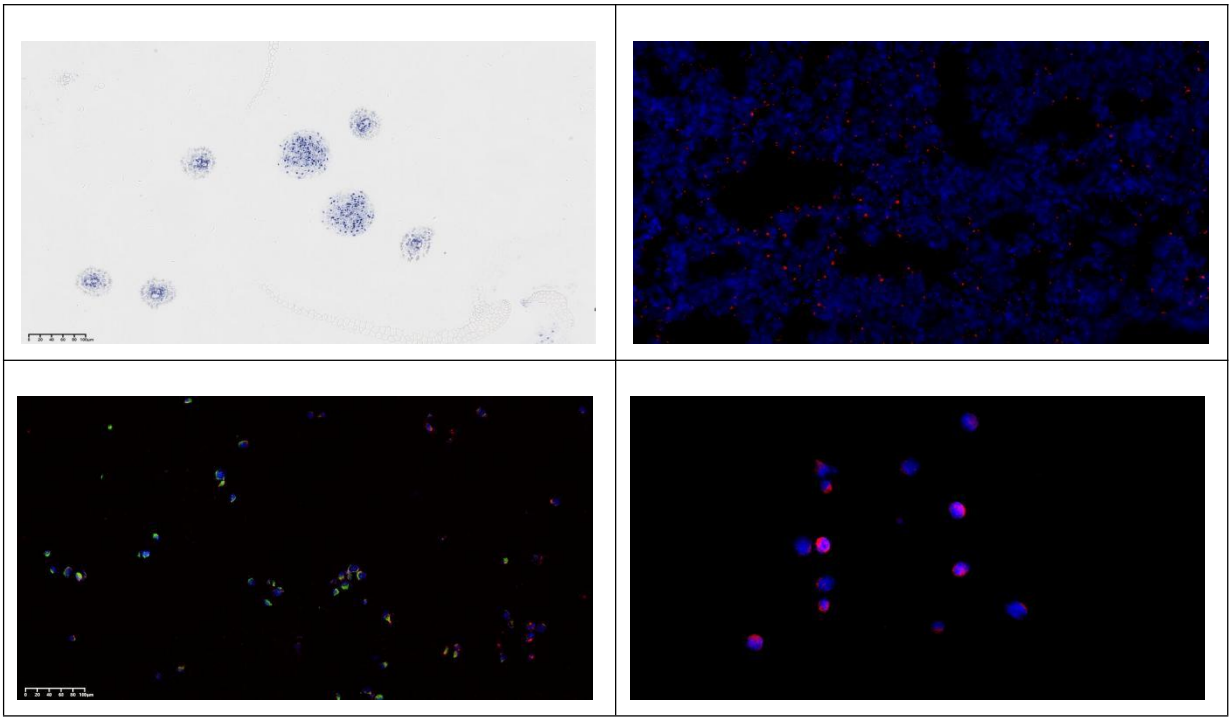
50 μL of NBT Chromogen Solution B to 1 mL of deionized water. Add 100 μL of the mixture per slide and incubate at RT for 30 min. Rinse with distilled water to stop the reaction. Air-dry slides and mount with mounting medium.

【Precautions】

1. For research use only.

2. Wear lab coats and disposable gloves for safety.

【Example Images】



【Source of Reagents】

发表[中文论文]请标注:Rapid RNA FISH Kit(Plant)(HKR11Z)由杭州浩克生物技术有限公司提供;

发表[英文论文]请标注:Rapid RNA FISH Kit(Plant)(HKR11Z) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.