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Kit Contents		
Product Code	Description	Volume
1124-F1-50	Detect F1 (Rabbit anti-FITC)	2 x 20µl
1124-F2-50	Detect F2 (FITC goat anti rabbit IgG)	2 x 35µl
1124-DT-50	Detergent (Tween 20)	1x 2ml
1124-MD-50	Reagent MD (Antifade + DAPI)	2x 1.25ml
1124-BP-50	Blocking protein*	2x1ml

### Requirements (not provided)

Equipment	Reagents
Ethanol cleaned slides	Sodium Chloride
Coverslips	Sodium Citrate
Coplin jars	HCl
Humidified chamber	Formamide
Micro-pipette 1µl, 10µl, 500µl	Clear nail varnish
Pipette 10ml, 20ml	Deionised Distilled water
Vortex	
Parafilm	
Micro-centrifuge	
45°C Water bath	
37°C Incubator	
Fluorescence microscope with a suitable filter set	

### Approx time:

Preparation 20 min  
 Procedure 70 min

**This product is for research use only**

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**Solutions to be prepared:** 20XSSC  
 1XSSC  
 4XSSC  
 Detergent wash solution  
 Stringency wash solution  
 Working Reagent A  
 Working Reagent B

**Solution 20XSSC:** 87.6g NaCl  
 44.1g Na Citrate  
 up to 500ml Deionised Distilled water  
*Adjust pH to 7.0 using concentrated HCl (before finalising water volume), aliquot and autoclave. Store at 4°C).*

**Solution 1XSSC:** 25ml 20XSSC  
 475ml Deionised distilled water  
 500ml 1XSSC

**Solution 4XSSC:** 100ml 20XSSC  
 400ml Deionised distilled water  
 500ml 4XSSC

**Detergent wash solution:** 500ml 4XSSC  
 250µl Detergent DT  
 500ml Detergent wash solution

**Stringency wash solution:** 50ml Formamide  
 50ml 1XSSC  
 100ml Stringency wash solution  
*Stringency wash solution can be reused up to 5 times but should be discarded after 2 months*

**Working Reagent A:** 6µl Detection reagent F1  
 1244µl Detergent wash solution  
 1250µl Working Reagent A (F1) (1:200)  
*Incubate in the dark for 5 min. Microcentrifuge at 11.000g for 5 min.*

**Working Reagent B:** 12.5µl Detection reagent B2  
 1237.5µl Detergent wash solution  
 1250µl Working Reagent B (F2) (1:100)  
*Incubate in the dark for 5 min. Microcentrifuge at 11.000g for 5 min.*

**Note:** *Ensure all solutions are mixed well.*

*All solution volumes sufficient for 10 slides*

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### Procedure: Washing

1. Pre-warm to 45°C in a water bath at least 30 min before starting:  
Two Coplin jars of Stringency wash solution (50ml each)  
Three Coplin jars of Solution 1XSSC (50ml each)  
One Coplin jar of Detergent wash solution (50ml)

**Note:** *The temperature is important. Check the temperature of the solutions in the Coplin jar and not of the water in the water bath.*

2. Take out the slide from the incubator and leave in Solution 1XSSC for 5 min. Take off rubber cement and replace in Solution 1XSSC to remove the coverslip.

**Note:** *Do not allow to dry.*

3. Stringency washes:  
Wash slides twice by incubating 5 min each in Stringency wash solution (45°C).  
Wash slides twice by incubating 5 min each in Solution 1XSSC (45°C).  
Incubate slide for 4 min in Detergent wash solution. (45°C),

### Procedure: Detection

4. Apply 100µl of Working Reagent A onto the slide and cover with Parafilm immediately.
5. Incubate slide in a humidified box for 15-20 min at 37°C.
6. Remove Parafilm from the slide and wash 3 times for 4 min each time in the Detergent wash solution at room temperature, by emptying and refilling the Coplin jar.
7. 100µl of Working Reagent B onto the slide and cover with Parafilm immediately.
8. Incubate slide in a humidified box for 15-20 min at 37°C.
9. Remove Parafilm from the slide and wash 3 times 4 min in Detergent wash solution at room temperature by emptying and refilling the Coplin jar.
10. Drain slide well and mount with 50µl of Reagent MD.
11. Apply glass coverslip and seal with nail varnish. Store slides in the dark at 4°C.

**Note:** *You get almost no air bubbles when supplied Reagent MD is applied on the coverslip and the almost dry (but not dried out!) slide is laid face-down on the coverslip.*

12. View slides using standard epifluorescence filters for FITC and for counterstain DAPI.

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