



A Sysmex Group Company



## FGFR1 Breakpart/Amplification Probe

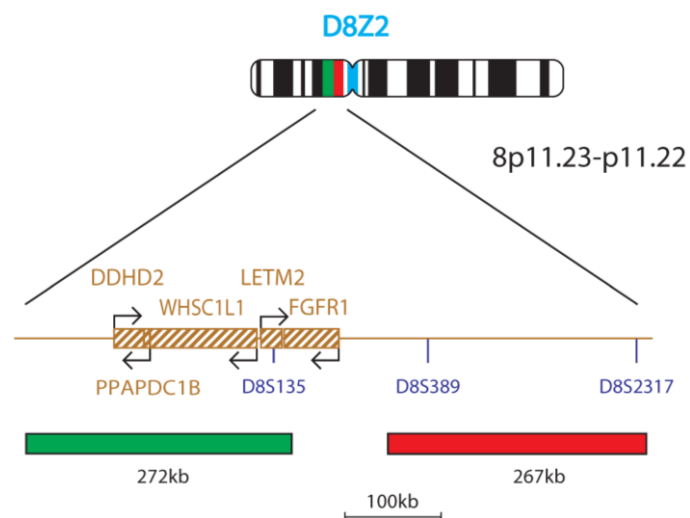
REF: LPS 018-A

**Analyte Specific Reagent: Analytical and performance characteristics are not established.**

Fluorescence *in situ* hybridisation (FISH) is a technique that allows the visualisation of DNA sequences upon chromosomes. The technique uses DNA probes that hybridise to entire chromosomes or single unique sequences, and serves as a powerful adjunct to classic cytogenetics. Recent developments have meant that this valuable technique can now be applied as an essential tool in prenatal, haematological and pathological chromosomal analysis. Target DNA, after fixation and denaturation, is available for annealing to a similarly denatured, fluorescently labelled DNA probe, which has a complementary sequence. Following hybridisation, unbound and non-specifically bound DNA probe is removed and the DNA is counterstained for visualisation. Fluorescence microscopy then allows the visualisation of the hybridised probe on the target material.

### Probe Specification

FGFR1, 8p11.23-p11.22, Red  
 FGFR1, 8p11.23-p11.22, Green  
 D8Z2, 8p11.1-q11.1, Blue



The FGFR1 Breakpart/Amplification probe consists of a green 272kb probe and a red 267kb probe, which are positioned on each side of the FGFR1 gene. The 8-centromere probe in blue acts as a control for chromosome 8.

### Materials Provided

**Probe:** 100µl per vial.

Probe concentration: Amount of red probe 7.00-11.8ng/µl  
 Amount of green probe 27.4-41.0ng/µl  
 Amount of blue probe 9.53-13.7ng/µl

The probe is provided in hybridisation solution (Formamide; Dextran Sulphate; SSC) and is ready to use.

### Warnings and Precautions

1. For professional use only.
2. Wear gloves when handling DNA probes.
3. Probe contains formamide, which is a teratogen; do not breathe fumes or allow skin contact. Wear gloves, a lab coat, and handle in a fume hood. Upon disposal, flush with a large volume of water.
4. Dispose of all hazardous materials according to your institution's guidelines for hazardous waste disposal.
5. Operators must be capable of visually distinguishing between red, blue and green.

### Storage and Handling

The kit should be stored between -25°C to -15°C in a freezer until the expiry date indicated on the kit label. Store the probe vial in the dark. Ensure that exposure of the probe to laboratory lights is limited at all times.

### Known Cross-Reactivity

No known cross-reactivity.

### Additional Information

For additional product information please contact the CytoCell Technical Support Department.

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### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS07

GHS08

Signal word (CLP): Danger

Hazardous ingredients: Formamide <100%

Hazard statements (CLP):

H315 – Causes skin irritation  
 H319 – Causes serious eye irritation  
 H360 – May damage fertility or the unborn child

Precautionary statements (CLP):

P202 – Do not handle until all safety precautions have been read and understood  
 P280 – Wear eye protection, protective clothing, protective gloves  
 P302+P352 – IF ON SKIN: Wash with plenty of soap and water  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P308+P313 – IF exposed or concerned: Get medical advice/attention  
 P362+P364 – Take off contaminated clothing and wash it before reuse  
 P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Refer to Safety Data Sheet for more information.

### Patents and Trademarks

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