



A Sysmex Group Company



## TLX1 Breakapart Probe

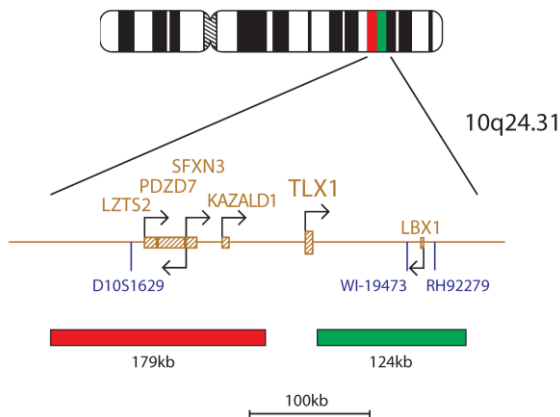
REF: LPH 049-A/ LPH 049-A50

**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

TLX1, 10q24.31, Red  
TLX1, 10q24.31, Green



The TLX1 product consists of a 179kb probe, labelled in red, located centromeric to the TLX1 gene, including the KAZALD1 gene and the D10S1629 marker and a green probe covering a 124kb region located telomeric to the gene, including the LBX1 gene and the RH92279 marker.

### Materials Provided

**Probe:** 100µl per vial or 500µl per vial  
Probe concentration: Amount of red probe 1.40-2.36ng/µl  
Amount of green probe 5.48-8.20ng/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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### L 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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