



A Sysmex Group Company



AML1/ETO (RUNX1/RUNX1T1) Translocation, Dual Fusion Probe

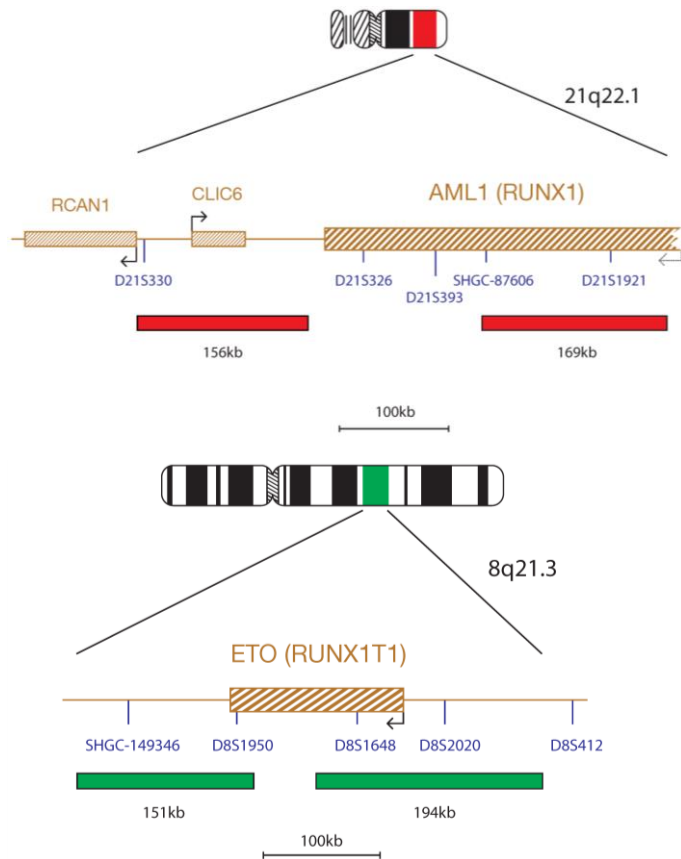
REF: LPH 026-A / LPH 026-A50

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

AML1, 21q22.1, Red
ETO, 8q21.3, Green



The AML1 component consists of a 156kb probe, labelled in red, located centromeric to the AML1 (RUNX1) gene that spans the CLIC6 gene and a 169kb probe covering part of the AML1 (RUNX1) gene, including markers SHGC-87606 and D21S1921. The ETO (RUNX1T1) component, labelled in green, consists of a 151kb probe covering the centromeric part of the gene and the flanking region and a 194kb probe covering the telomeric part of the gene and the flanking region.

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 8.22-12.3ng/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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