A Sysmex Group Company

CytoCell

ATM Deletion Probe

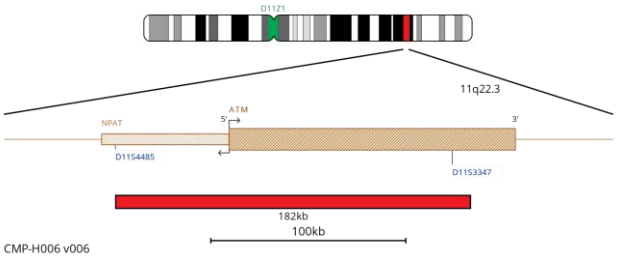
REF: LPH 011-A

Analyte Specific Reagent (ASR). Analytical and performance characteristics are not established.

For professional use only.

Fluorescence *in situ* hybridization (FISH) is a technique that allows the visualization of DNA sequences on chromosomes. The technique uses DNA probes that hybridize to entire chromosomes or single unique sequences, and serves as a powerful adjunct to G-banded cytogenetic analysis. This technique can now be applied as an essential investigative tool within prenatal, hematological and solid tumor chromosomal analysis. Target DNA, after fixation and denaturation, is available for annealing to a similarly denatured, fluorescently labeled DNA probe, which has a complementary sequence. Following hybridization, unbound and non-specifically bound DNA probe is removed and the DNA is counterstained for visualization. Fluorescence microscopy then allows the visualization of the hybridized probe on the target material.

Probe Specification
ATM, 11q22.3, Red
D11Z1, 11p11.11-q11, Green



The ATM probe is 182kb, labelled in red, and covers the telomeric end of the *NPAT* gene and the centromeric end of the *ATM* gene to just beyond the D11S3347 marker. The probe mix also contains a control probe for the 11 centromere (D11Z1) labelled in green.

Fluorophore Information

Fluorophore	Excitation$_{max}$ [nm]	Emission$_{max}$ [nm]
Green	491	515
Red	596	615

Materials Provided
Probe: 100µl per vial
The probe is provided in hybridization solution (formamide; dextran sulfate; saline-sodium citrate (SSC)) and is ready to use.

Warnings and Precautions
1. Analyte Specific Reagent. Analytical and performance characteristics are not established.
2. For laboratory professional use only.
3. Probe mixtures contain formamide, which is a teratogen; do not breathe fumes or allow skin contact. Handle with care; wear gloves and a lab coat.
4. Do not use if the vial is damaged, or the vial contents are compromised in any way.
5. Follow local disposal regulations for your location along with recommendations in the Safety Data Sheet to determine the safe disposal of this product. This also applies to damaged product contents.
6. Dispose of all used reagents and any other contaminated disposable materials following procedures for infectious or potentially infectious waste. It is the responsibility of each laboratory to handle solid and liquid waste according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.
7. Operators must be capable of distinguishing the colors red, blue, and green.

Storage and Handling

The probe vial should be stored between -25ºC to -15ºC in a freezer until the expiry date indicated on the label. The probe vial must be stored in the dark.

Exposure to light should be minimised and avoided wherever possible. Store the vial in the light proof container provided. Components used and stored under conditions other than those stated on the labeling may not perform as expected and may adversely affect the assay results. All efforts must be made to limit exposure to light and temperature changes.

Known Relevant Interferences / Interfering Substances
No known relevant interferences / interfering substances.

Known Cross-Reactivity
The green D11Z1 probe may show cross hybridization signals to 1c, 17c and Xc.

Additional Information
For additional product information please contact the CytoCell Technical Support Department.
T: +44 (0)1223 294048
E: techsupport@cytocell.com
W: www.ogt.com

Labeling according to GHS-US and OSHA Hazard Communication Standard

Hazard pictograms

GHS07 GHS08

Signal word

Danger

Hazardous ingredients

Formamide <70%

Hazard statements

Causes skin irritation.
Causes serious eye irritation.
May damage the unborn child.

Precautionary Statements - Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/clothing and eye/face protection.
Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.
Specific treatment (see supplemental first aid instructions on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Refer to the Safety Data Sheet for more information.

Symbols Glossary

ISO 15223-1:2021 - "Medical devices - Symbols to be used with information to be supplied by the manufacturer - Part 1: General requirements" (© International Organization for Standardization)		
Symbol	**Title**	**Reference Number(s)**
	**en:** Manufacturer	5.1.1
	**en:** Use-by date	5.1.4
	**en**: Batch code	5.1.5
	**en:** Catalogue number	5.1.6
	**en:** Keep away from sunlight	5.3.2
	**en:** Temperature limit	5.3.7
	**en:** Consult instructions for use	5.4.3
EDMA symbols for IVD reagents and components, October 2009 revision		
Symbol	**Title**	**Reference Number(s)**
	**en:** Contents (or contains)	N/A

Patents and Trademarks
CytoCell is a registered trademark of Cytocell Limited.

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