

MYB (6q23) Red/ 6q21 Green

FISH Probe
902-7025-102517

BIOCARE
M E D I C A L

Catalog Number: PFR7025A
Description: MYB (6q23) Red/ 6q21 Green FISH Probe
Dilution: Ready-to-use
Volume: 100 µL

Intended Use:

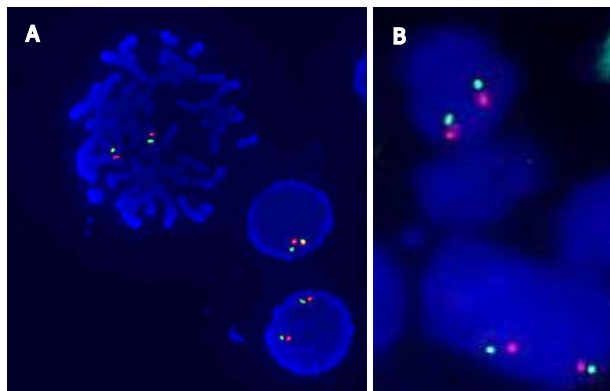
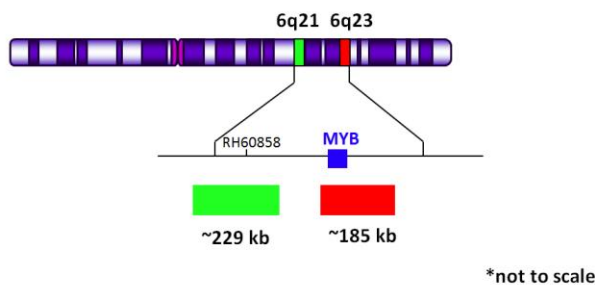
For Research Use Only. Not for use in diagnostic procedures.

Summary and Explanation:

Deletions of chromosome 6q are found in many types of cancer, including melanoma, prostate cancer, fibroadenomas, and carcinoma of breast and other sites¹. Chromosome 6q deletions are also commonly found in lymphoid malignancies such as acute lymphocytic leukemia (ALL), approximately 30% of cases²; chronic lymphocytic leukemia (CLL), non-Hodgkin's lymphoma (NHL), approximately 7%, multiple myeloma (MM), mantle zone lymphoma (MZL), and Waldenström's macroglobulinemia (WM)³.

Principle of Procedure

The MYB (6q23) Red Probe is designed to provide coverage of the MYB 6q23 (~185 kb) region of chromosome 6. The green Probe is designed to provide coverage of the 6q21 (~229 kb) region of chromosome 6. A normal cell would show two red and two green signals.



A) MYB (6q23) Red/ 6q21 Green FISH probe hybridized on normal blood sample. Interphase and metaphase cellular states are shown. (B) MYB (6q23) Red/ 6q21 Green FISH probe hybridized on FFPE tissue.

Species Reactivity: Human

Known Application:

Fluorescence In-situ Hybridization (FISH) on formalin-fixed paraffin embedded (FFPE) tissues.

Supplied As: Probe in hybridization buffer.

Storage and Stability:

Store probe at -20°C and away from light. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date.

Technical Note:

Biocare Medical FISH probes are optimized to provide the best signal performance using optical filters that can accommodate the excitation/emission wavelengths specified below. Using filters outside these spectral specifications may produce sub-optimal results.

Fluorophore	Excitation (nm)	Emission (nm)
AQUA	432	472
GREEN	498	521
ORANGE	546	575
RED	593	618

Limitations:

1. This product is Research Use Only.
2. It is the responsibility of the user to validate any test for its specific use.

Precautions:

1. This product contains formamide, which may be toxic. Formamide may cause serious eye damage or reproductive toxicity. It may also cause irritation by inhalation or skin contact. Avoid any direct contact exposure to reagent. Take appropriate protective measures (use disposable gloves, protective glasses, and lab garments).
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water⁴.
3. The SDS is available upon request and is located at <http://biocare.net>.

Technical Support:

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

References:

1. Brigaudeau C and Bilhou-Nabera C. Del(6q) abnormalities in lymphoid malignancies. Atlas Genet Cytogenet Oncol Haematol. December 1998.

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Rev. 062117

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2. 6q Deletions in Acute Lymphoblastic Leukemia and Non-Hodgkin's Lymphomas. Mats Merup, Teresa Calero Moreno, Mats Heyman, Kristina Rönnerberg, et al. *Blood*, Vol 91, No 9 (May 1), 1998: pp 3397-3400
3. Sinclair PB, Sorour A, Martineau M, Harrison CJ, Mitchell WA, O'Neill E, Foroni L. A fluorescence in situ hybridization map of 6q deletions in acute lymphocytic leukemia: identification and analysis of a candidate tumor suppressor gene. *Cancer Res.* 2004;64:4089-4098.
4. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory workers from occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.



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