

# IGH (14q32) Green/BCL2 (18q21) Orange

FISH Probe  
902-7314-102517

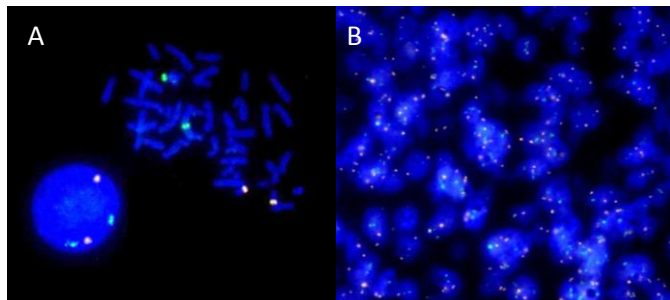
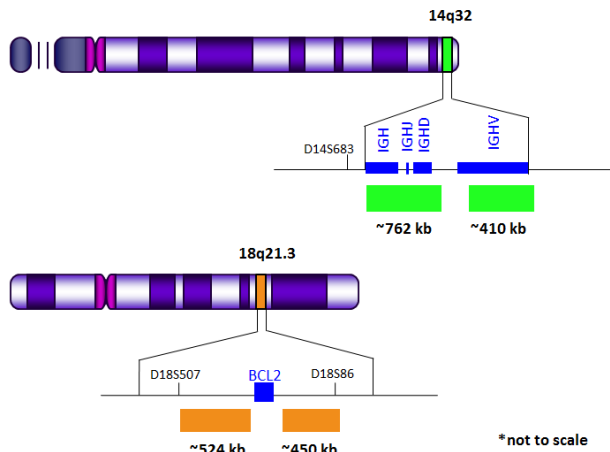
**BIOCARE**  
M E D I C A L

**Catalog Number:** PFR7314A  
**Description:** IGH (14q32) Green/ BCL2 (18q21) Orange FISH Probe  
**Dilution:** Ready-to-use  
**Volume:** 100 µL

**Intended Use:**  
For Research Use Only. Not for use in diagnostic procedures.

**Summary and Explanation:**  
Follicular lymphoma (FL) has a characteristic chromosomal translocation involving the t(14;18)(q32;q21) loci. This results in the BCL2 oncogene getting transposed into the IGH gene on the heavy chain<sup>1</sup>. The resulting over-expression of BCL2 is strongly associated with the pathogenesis of FL<sup>2</sup>.

**Principle of Procedure**  
The IGH (14q32) Green Probe is designed to provide coverage of the 14q32 (~762 kb and ~410 kb) region of chromosome 14. The BCL2 (18q21) Orange Probe is designed to provide coverage of the 18q21.3 (~524 kb and ~450 kb) region of chromosome 18. A normal cell would show two green and two orange signals.



A) IGH (14q32) Green/BCL2 (18q21) Orange FISH probe hybridized on normal blood sample. Interphase and metaphase cellular states are shown. (B) IGH (14q32) Green/BCL2 (18q21) Orange 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

## Precautions:

1. This product is Research Use Only.
2. It is the responsibility of the user to validate any test for its specific use.
3. 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).
4. 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 water<sup>3</sup>.
5. 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:

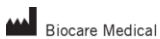
1. Detection of t(14;18) by PCR of IgH/BCL2 fusion gene in follicular lymphoma from archived cytological smears. Stoos-Veić T, Livun A, Ajduković R, Pejša V, Jakšić O, Kusec R. Coll Antropol. 2010 Jun;34(2):425-9

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2. Novel insights into the mechanism of t(14;18)(q32;q21) translocation in follicular lymphoma. Nadel B, Marculescu R, Le T, Rudnicki M, Böcskő S, Jäger U. Leuk Lymphoma. 2001 Nov-Dec;42(6):1181-94"
3. 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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Rev. 062117

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