IGH (14q32) Green/ CCND1 (11q13) Orange
FISH Probe
902-7017-102517

Catalog Number: PFR7017A
Description: IGH (14q32) Green/ CCND1 (11q13) 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:
IGH gene rearrangements are considered to be one of the classical cytogenetic gene aberrations associated with numerous cancers such as: Chronic lymphocytic leukemia (CLL), Multiple Myeloma (MM), and Non-Hodgkin lymphoma. The t(11;14)(q13;q32) translocation results in the CCND1 gene being inserted into the heavy chain (IGH) locus resulting in over production cyclin D1 protein. This is considered by many to be the hallmark cytogenetic event associated with mantle cell lymphoma.

Principle of Procedure:
The IGH (14q32) Green/ CCND1 (11q13) Orange FISH Probe is designed to provide coverage of the constant (~762kb) and variable (~410kb) regions of the IGH gene along with ~530kb of the CCND1(11q13) region of chromosome 11. A normal cell would show two orange and two green signals.

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.

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
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<tbody>
<tr>
<td>GREEN</td>
<td>498</td>
<td>521</td>
</tr>
<tr>
<td>ORANGE</td>
<td>546</td>
<td>575</td>
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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.
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: