CCND1 (11q13) Break Apart Orange/Green
FISH Probe
902-7009-031318

Catalog Number: PFR7009A
Description: CCND1 (11q13) Break Apart Orange/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:
The CCND1 break apart probe is designed to detect chromosomal rearrangements involving the CCND1 gene on chromosome 11. The CCND1 gene encodes a cyclin D1 protein and functions as a cell cycle regulator. Chromosomal rearrangements involving the CCND1 gene have been identified in a variety of cancers and hematological malignancies. Rearrangements of the CCND1 gene result in CCND1 overexpression and cell cycle deregulation. CCND1 gene rearrangement involving the immunoglobulin heavy chain (IGH) gene results in CCND1 overexpression due to CCND1/IGH rearrangement. Conventional cytogenetic techniques such as fluorescent in situ hybridization (FISH) can be utilized to identify chromosomal rearrangements involving the CCND1 gene.

Principle of Procedure:
CCND1 Break Apart probe is a dual color probe designed to detect rearrangements in the CCND1 gene. The green probe is approximately 513 kb in size and flanks the centromeric end of the CCND1 gene. The orange probe is approximately 530 kb in size and flanks the telomeric end of the CCND1 gene. When the probe is hybridized to a normal cell it will show two orange/green (yellow) fusion signal patterns. A cell containing a rearrangement of the CCND1 gene will show one orange, one green (separated) and one orange/green (yellow) fusion signal patterns.

Limitations:
This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its 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). The SDS is available upon request and is located at http://biocare.net.
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 water.

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

References: